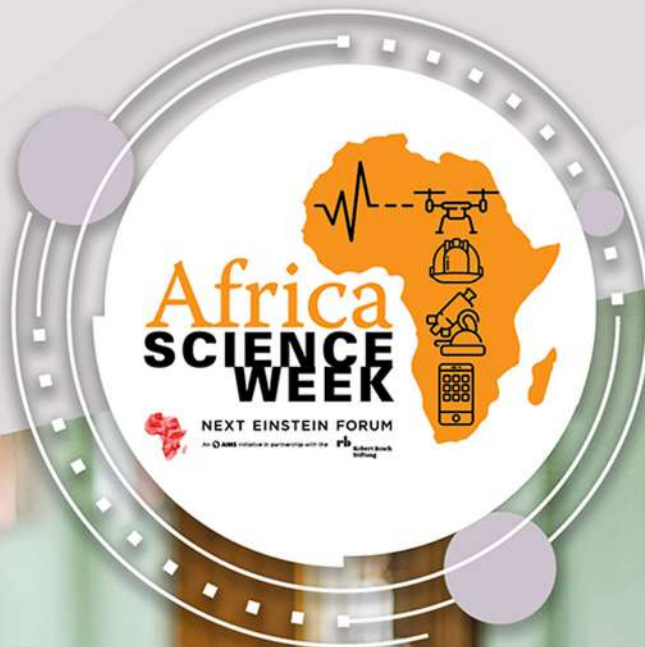


AFRICA SCIENCE WEEK 2019 TANZANIA

NARRATIVE REPORT



Dr. Lwidiko Edward MD
NEF Ambassador-Tanzania

About NEF:

The Next Einstein Forum (NEF) is a platform that brings together leading thinkers in science, policy, industry and civil society in Africa to leverage science to solve global challenges. Founded in 2013, by the African Institute for Mathematical Sciences (AIMS) President and CEO Thierry Zomahoun, the NEF was launched by two key partners – AIMS and Robert Bosch Stiftung.

Why is NEF important for Africa and Tanzania in particular?

NEF is trying to reshape the narrative around innovation in Africa – from adhoc to science/research driven innovation. This is key to industrialization and transformation.

- The NEF wants to bridge the gap between connect science, society and policy in Africa and the rest of the world – with the goal to leverage science for human development globally.
- The NEF organizes the largest scientific conference in Africa (1600 people attended the last one from 91 countries)
- The NEF is building a community of scientists which includes NEF Fellows, top scientists under 42 living and working across the world in fields ranging, the NEF Fellows (30 since 2015) & NEF Ambassadors, STEM ambassadors living in Africa who run science communication & public engagement activities locally.
- The NEF also is working on policy issues with African Union bodies & will also be launching an Africa Science & Innovation Index, the likes of a Doing Business Index of the World Bank
- The NEF also works on public engagement through Africa Science Week, Science and Cocktails which brings industry & scientists together etc.
- The NEF is working to address issues across the STEM education, research & innovation pipeline.



State of STEM in Tanzania

According to the “National Development Vision 2025” document in Tanzania, it identifies Science and Technology as pillars for innovation and competitiveness towards making Tanzania semi- industrialized, middle-income economy by 2025. Studies in Tanzania have shown a significant skills miss-match with the vision that will prevent the country to attain the aspired goals. When Tanzania is compared with other countries who are in middle income bracket, its seen that they had about 3.4% of their working class in Sciences by the time they entered the middle-income bracket, and Tanzania will have only 0.25%. In order to implement the Tanzanian Vision 2025, science and technology has to be incorporated through creation of generation of young people with highly developed problem-solving skills. Hence the need to accelerate STEM Education in Tanzania.

About the NEF Ambassador



Dr. Lwidiko Edward MD
NEF Ambassador - Tanzania

NEF Ambassadors are the NEF's young science and technology champions, one from each African country. Ambassadors are selected every two years and they attend the NEF Global Gatherings, Africa's largest scientific conference, the last was held in Kigali in March this year, next in Kenya in March 2020. The NEF Ambassador in Tanzania 2017/2019 is Dr. Lwidiko Edward MD, who is a medical researcher currently doing his PhD on Malaria in Uppsala University. He is also the co-founder of ProjeKt

Inspire. A social enterprise that focuses on career guidance and inspiration for young adults and kids, with a niche in STEM careers, (Science Technology Engineering and Math). In 2019, from September to December, 34 African Countries successfully organized Africa Science Week, including Tanzania from 2nd – 6th December 2019.

What is Africa Science Week (ASW) & where did it take place?

ASW is weeklong activities to promote STEM education, research and innovation. The NEF held the first one in 13 countries in 2017 and will now have activities in 34 countries led by NEF Ambassadors in each of those countries. Activities range from robotics competition/coding workshops, events to honor women in STEM, industry visits or science and cocktails (where a scientist explains his research and application to private sector in a social setting), academic conferences, etc. In Tanzania, the ASW was conducted from 2nd to 6th December in three different regions, Dar es Salaam, Tanga and Arusha with a wide range of activities as elaborated below.



Coding Workshop and career guidance session.

We had a full day of activities for secondary school students from 6 schools in Dar es salaam, a mix of public and private schools, with both, boys and girls. The event were hosted at the Almontazir Girls secondary school, Upanga, and attended by about 70 students from Loyola High School, Mugabe secondary school, Oysterbay Secondary school, Tambaza High school, and Azania high school. This event was officiated by the NEF Ambassador, and the CEO of Almontzir Schools on behalf of other heads of schools.



The First part of the workshop was a session on Career Planning and TransferableSkills - Developing Personal and Professional Range by Princely Glorious of Ona Stories, where the students were walked through a 10 points tips on developing these skills:

1. Get Certified
2. Be remarkable
3. Invest in Variance
4. Move to a city
5. Boring is Sexy
6. Delay gratification
7. Demonstrate Strength and Grit
8. Don't follow your passion
9. Ignore myth of balance
10. Fight Unfair.

These points were discussed and debated upon, and their values were deduced during the first 4 hours of the day. Then followed science fair exhibition, where the students showcased their various innovative, and projects, from Virtual Reality gadgets from Ona Stories to electrical car from RobotecLabs.



This was the entry point to the workshop of the day that focused on coding, automation and self-driving things. Students were oriented on Arduino, and shown how basic programming works with python as a programming language. Using a Bluetooth controlled Arduino car kit from ProjeKt Inspire, they worked on the assembly and wiring of the car, writing the control codes, uploading them, and competing in teams on whose car runs faster and is better controlled.





Day 2, 3 and 4 ASW – Tanga 4th to 6th Dec 2019

Science Fair and Science Teachers Workshop

It is without a doubt, the Africa Science Week left the participants in awe of how much more could be accomplished toward improving of science education in Tanga, briefly for the Tanga activities:

1. Science Fair: The event hosted over 350 primary school pupils from more than 10 schools in Tanga city for the full day science fair events accompanied by their teachers. This was about 3 times the initially planned number of participants 130. This was due to high demand from the pupils from nearby schools and availability of science fair materials from ProjeKt Inspire,

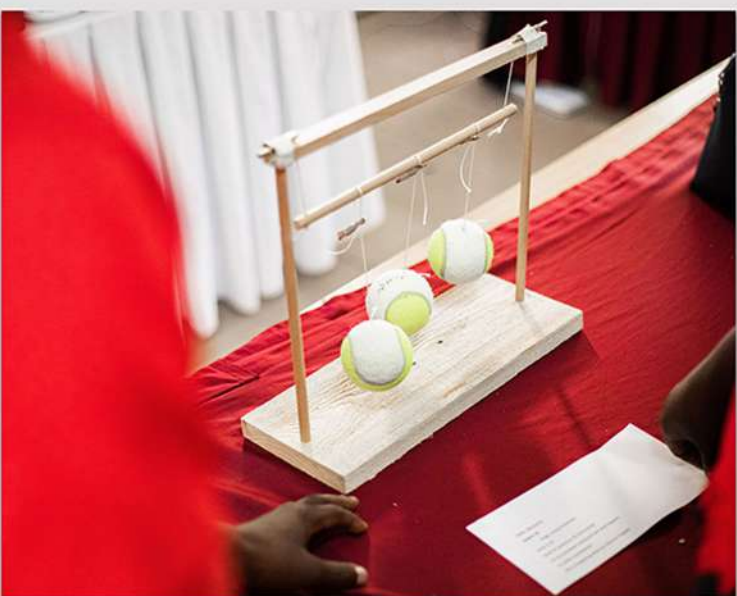
The pupils participated in guided science projects with science kits in chemistry, electricity and technology, and an interactive science and technology career discussion.



2.Science Teachers workshop: In partnership with Marco from Technorama conducted a two days capacity building workshop toward establishment of the science center in Tanga. The participants were 17 teachers from 17 different primary schools, 6 craftsmen from VETA (2) and local community (4) and 7 trainers from ProjeKt Inspire. The focus of the first day was on hands on pedagogical approaches to experiencing science. This enabled the participants to immerse themselves in the world of exploring various scientific phenomena, and was introduce the idea of sharing the same experience with the public through exhibits.

The second day focused on converting their experiences into exhibits that could be installed in a science center, or be mobile to move across schools or public spaces in the form of science fairs. The outcome of the workshop included very inspired participants, whom in 6 groups, they managed to create usable science center exhibits for 6 different scientific phenomena.





3. Technology workshop with secondary school girls:

In partnership with Tanzania Flying Labs, we involved about 30 girls from Tanga technical school whom have interest in coding/ robotics/ technology, in an intimate session for the same. The theme was "Nature conservation using drones technology". The girls got an exclusive opportunity to experience flying the mini drones in doors, most for the first time. They also got to write codes that enabled the control of the droned beyond the remote control. There was a lengthy questions and answers session that was targeted to increase the girl's confidence towards getting involved in this predominantly masculine field.



Awarding Women in STEM and Launch of the STEMi Africa Platform

Official opening:

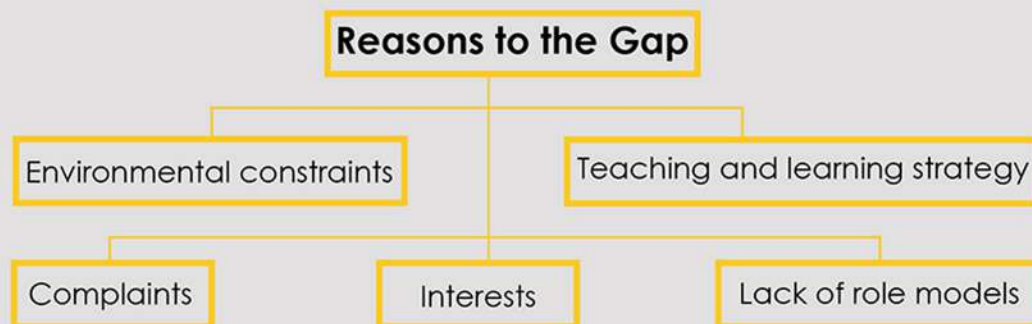
This event was officiated by Prof. Maulilio Kipanyula, the Director of Science Technology and innovation from the Ministry of Education Science and Technology in Tanzania, on behalf of the Minister for Education Science Technology Prof. Joyce Ndalichako. It was attended by more than 280 people including various dignitaries from the university, including the Vice Chancellor, and their deputies' representatives of the British High Commission -Dar es Salaam, Africa Development bank, UNESCO - National Commission, representatives of Vice chancellors from neighboring higher learning institutions, companies that work in STEM field like Inqaba, iTec, secondary school students, and primary school students. This was one of the biggest events conducted at the Nelson Mandela African Institution for Science and Technology (NM-AIST).



Panel Discussion:

After opening remarks from the NEF Ambassador, welcoming remarks from the Vice Chancellor of NMAIST and a note from the British High commissioner representative on behalf of other sponsors, there followed a panel discussion with the theme ***“The state of STEM careers in Africa; what has been the contribution of women”*** with Dr. Kelvin Mtei as the keynote speaker.

Dr. Kelvin Mtei started off by explaining the meaning of STEM and to explain that the love for STEM begins at early stage of education, since kindergarten. It is the learning period of a child and this is the time to instill the passion for STEM in a child. After primary, then secondary school is when one learns to love these subjects and pursue them up to university level. He also spoke about how researchers have indicated under representation of women in STEM careers and when does the gap begin?



Solutions:

- Investing and igniting the power of science in the primary and secondary schools.
- Exploiting our needs by exploiting technology by innovation to solve problems in our society.
- Role models have increased women participation in STEM
- Supporting men and women in STEM by removing stereotypes that science subjects are not meant for women.

The panelists were:



Prof. Verdiana G. Masanja

Panelist - Professor of Computational Mathematics at NMAIST

Professor Verdiana Grace Masanja – the first woman to have a PhD in mathematics in area of Fluid Mechanics from the Technical University of Berlin (TUB), Germany in February 1986, now Professor of Computational Mathematics at Nelson Mandela African Institution of Science and Technology (NM-AIST) School of Computational and Communication Sciences and Engineering (CoCSE).

- Her area of focus in the panel was - What can be done at University Level to bridge the Gender Gap in STEM in Africa?"
- She spoke about how she was part of a program at the university of Dar es salaam where students who did not perform well in mathematics and wanted to pursue that subject further were taken and joined a pre-entry program and where taught mathematics. When the courses started, the group of students were joined with the students that had initially performed well and ended up doing well.

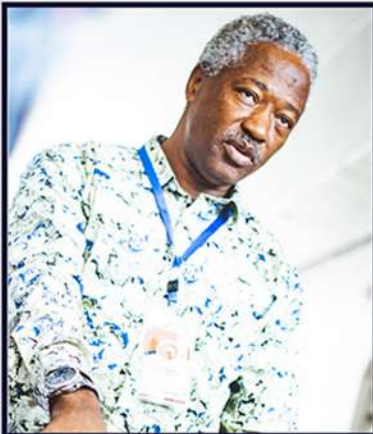
Dr. Eliamani Laltaika - who is the current Open Africa Innovation Research Partnership (Open AIR) STEM Ambassador and Collaborator for Tanzania. – He is a holder of a PhD in Intellectual Property (IP) from the University of Bayreuth, Germany where he was a recipient of the prestigious Max Planck scholarship and a full-time resident researcher at the Max Planck Institute for Intellectual Property and Innovation) in Munich.



Dr. Eliamani Laltaika

Panelist - Open Africa Innovation Research Partnership (Open AIR) STEM Ambassador

- His area of focus in the panel was - STEM education as a tool for gender equity in Africa: lessons from Tanzania mainland" The issues of intellectual property rights and innovation as previously communicated
- He spoke about the contribution of many woman in the world in STEM and how we can use the "PEST (Political, Economic, Social and Technical) strategies" to ensure gender equality in all aspects.



Mr. Joel Samuel - Panelist
Deputy Secretary-General of the UNESCO

Mr. Joel Samuel- is Deputy Secretary-General of the UNESCO National Commission of the United Republic of Tanzania. He is also the Head of the Natural Sciences Department of the Commission. He is one of the founders of the Science and Technology for women in Tanzania (STI4WT). The association with the objective of transforming the mindset and lives of women and young girls in Tanzania through STEM.

- His area of focus in the panel was - UNESCO and other International agencies in Tanzania are promoting STEM for women. To what extent this opportunity is tapped by our systems in Africa?
- He also spoke about how important it is to change one's mindset. A woman (wife/mother) needs to be the person to set the mindset of her children. A woman has the power to change the mindset of a number of people, it's how they were created.

Dr. Liliane Pasape- works as a Senior Lecturer in the School of Business Studies and Humanities (BuSH) at the Nelson Mandela African Institution of Science and Technology. Her interests cover wide areas of, business strategies and innovative management; entrepreneurship and strategic marketing; innovation systems and technology management as well as ecotourism; value chain management and community empowerment.



Dr. Liliane Pasape
Panelist -

- Her area of focus in the panel was - STEMI Acceleration Endeavors
- She spoke about how we lack a conducive environment to nurture STEM in Tanzania.
- Education should be used to make change.
- Mandate and legal framework need to be changed and be flexible. Our regulatory system needs more flexibility.
- So, what can be done? Innovation week, where students can showcase their innovations, create gatherings and invite students to innovative and support groups to help each other.

Launch of STEMi

The panel discussion was followed by a speech from the president of STEMi Mentorship and Coaching Platform for Africa (STEMi Africa) at the NM-AIST, Arusha, and its official launching by the guest of honor, accompanied with awarding certificates to the members /ambassadors of the platform. STEM-Africa is an initiative of NM-AIST students (Masters and PhD) from 12 countries in Africa (Tanzania, Kenya, Uganda, Sudan, Nigeria, Malawi, Burkina Faso, Rwanda, Mozambique, Ethiopia, Cameroon, Zambia) under patronage of among others, the Vice Chancellor of the NMAIST Prof. Emmanuel Luoga, Dr. Janeth Marwa, School of Business Studies and Humanities (BuSH) and Dr. Eliamani Laltaika (Open Africa Innovation Research collaborator and STEM ambassador to Tanzania). The main purpose of the platform is to bring together efforts geared towards promoting increased enrolment in STEM related subjects and careers especially by women in Africa. STEMi Africa will act as a powerhouse for inspiration, hands on practices, community outreach activities, training, mentorship and coaching of young scientists, engineers and technologists who would become STEM mentors/coaches and ambassadors in their respective countries and communities. The guest of honor reaffirmed the government's support in STEM fields, and called upon continued support and partnerships from other stakeholders in support of initiatives that promote STEM fields. He also mentioned several initiatives that the government has been doing in promotion of STEM, including competitions like MAKISATU. Exhibitions from secondary school students and other STEM stakeholders followed before lunch, where there were about 15 schools that participated, and top three were awarded certificates for most innovative projects presented. Later followed by a group photo.

Names of Schools that won

1. Ilboru Secondary School
2. Kikwe Secondary School
3. Arusha Day Secondary School



Awarding women in STEM

The most pivotal event of the day was Women in Science celebration, where outstanding Tanzanian women whom were nominated from fields of Science, Technology, Engineering and Mathematics were awarded recognition Trophies and certificated from NEF, handed to them by the director of Science Technology and Innovation from the ministry. The criteria set for career women scientists and young upcoming women in science included; Tanzanian residing within or outside the country, having outstanding innovative product (tangible product/service/idea), work that has demonstrable Impact to the community. Career Women Scientists nomination criteria included women whom have at least five years of experience and is actively involved in research, preferably a member of Academia/Research Institute/Industry/Technical Institution. Two awardees were absent namely; Christina and Nuru.







The following women were awarded:

Upcoming Woman in STEM Category

- Nancy Iraba
- Theofrida J. Maginga
- Risala Mureth
- Neema Mduma
- Doroles Mihanjo
- Christina Kibuta

CAREER Woman in STEM Category

- Dina Machuve
- Agnes Woisso

SAGE Woman in STEM Category

- Professor Verdiana Grace Masanja

The outgoing NEF Ambassador used this event to officially introduce to the public, the incoming NEF ambassador 2020/2021, Ms. Sofia-Jane Abeid. The event was officially closed by the Vice chancellor, with the commitment to have continued partnership with NEF.



Media Coverage

1. <https://www.facebook.com/itvtz/videos/1338299169674657/?sfnsn=mo&s=100007235196754&w=y>
2. <https://www.ippmedia.com/en/news/over-200-tanzanian-youth-take-part-africa-science-week>
3. <https://youtu.be/faSu3Jk8uPI>
4. <https://www.youtube.com/watch?v=F-aJ28A3V3M&feature=youtu.be>

HABARI

Wiki ya Sayansi Afrika kuanza Desemba 2

Dar es Salaam. Wiki ya Sayansi Afrika inatarajiwa kufanyika nchini kuanzia Desemba 2 hadi 6 mwaka huu ikilenga kuwakusanya wabobezi wa masomo ya sayansi na wanafunzi wa shule za msingi na sekondari kujifunza masuala mbalimbali ya sayansi.

Wiki hiyo ambayo hufanyika katika mataifa mbalimbali barani Afrika, kwa Tanzania itafanyika katika mikoa ya Dar es Salaam, Tanga na Arusha. Haya ni maadhimisho ya tatu kufanyika tangu ianze kuadhimishwa nchini mwaka 2017.

Mwakilishi wa Balozi wa Jukwaa la Next Einstein (NEF) ambaye ndiye waandaji wa maadhimisho hayo, Sophia Abeid alieleza kuwa wanasayansi waliobobea watafundisha programu mbalimbali za kisayansi kwa wanafunzi.



Alisema kwa mkoa wa Dar es Salaam, maudhui yatakuwa kuwafundisha wanafunzi wa shule za sekondari kuandika programu za roboti ambazo zitatumika kutoa maelekezo kwa roboti zaidi ya 10.

"Tunaelekea kwenye uchumi wa

viwanda na kazi nyingi zinafanyika kwa mashine, sasa tunataka wanafunzi waan-ze kufahamu kuhusu roboti na kuandaa programu zake.

"Tunapoelekea kila kitu kinafanyika kwa digitali, hivyo vijana wenzangu niwasihhi kuchagua upande wa sayansi maana huko ndiko dunia iliko," alisema Sophia.

Alisema pamoja na mafunzo, maadhimisho hayo yatakwenda sambamba na utoaji wa tuzo kwa wanawake waliofanya tafiti za kisayansi na zimekuwa na matokeo chanya kwa utatuzi wa changamoto zilizopo kwenye jamii.

Kwa mkoa wa Tanga, wanafunzi wa kike 30 wa shule ya ufundi ya Tanga watapata nafasi ya kujifunza juu ya elimu ya ndege nyuki (drones).

(Elizabeth Edward)

ASW kuadhimishwa Desemba 2

NA TATU MOHAMED

MAADHIMISHO ya Wiki ya Sayansi ya Afrika (ASW) kwa mwaka huu yinatarijwa kufanyika Desemba 2 mpaka 6 ambapo nchini yataadhimishwa katika Mikoa mitatu ambayo ni Dar es Salaam, Tanga na Arusha. Wiki ya Sayansi ya Afrika inatadhimishwa na Next Einstein Forum (NEF) ambapo kuandaa lake kubwa ni kuleta pamoja wadau mbol-

imbali katika sayansi, sekta ya viwanda na jumuiya zote pamoja nchini Afrika ili kuweza kutemba sayansi katika maatano mbalimbali katika dunia.

Akizungumza na waandishi wa habari jana jiji Dar es Salaam, Mwakilishi wa Balozi wa NEF, Sophia Abeid, alisema NEF inatoka kutiba pengo katika sayansi kwa maendeleo ya wanadamu ulimwengu.

"Katika wiki hiyo ya Sayansi Afrika, Shughuli zinazenda

kwenye maadhimisho ya roboti, semina mbalimbali zitafanyika, hali za kuwapa tuzo wanawake wanasayansi kwenye sayansi, ziara za viwanda vya sayansi pamoja na kufanya maadhimisho ya kila mwaka," alisema Sophia.

Naye Mratibu Mkoa wa ASW, Mkoa wa Dar es Salaam na Tanga Isaya Ipyana, alisema sehemu ya kwanza itafanyika Desemba 2, mwaka huu, Dar es Salaam katika Shule ya Msingi ya Wavulana ya Al-Muntazir iliyopo Ujunga.

Ipyana alisema, maadhimisho kuanza yatakuwa ni kutundia vijana wa Shule za Sekondari kuhusu kuandika programu za roboti ambazo zitatumika kutoa maelekezo kwenye roboti zaidi ya kumi zitalazwa endeshwa kwa njia ya rimoti maadhimisho kwenye na Gibson Kawaga wa Project Inspire.

"Wanafunzi hawa ambao wanafunza kwa kufuta mtaala ya Tanzania, wamekosa somo linakwapa ujuzi juu ya teknolojia

mpya kama roboti kwa hivyo huu ni muda wa wao kupata wazi ujuzi mdogo utakuwa chachu ya kufanya makubwa zaidi. Tunategemea kuwa na wanafunzi zaidi ya 50 kutoka kwenye shule hizi tofauti," alisema Ipyana.

Alisema sehemu ya pili itafanyika Desemba 4, mwaka huu jiji Tanga katika Shule ya Msingi Changa ambapo mgata rasmi atalazwa Meya wa Jiji hii, na wanasayansi kupata wataalamu 100 kutoka shule 10 kutoka

Tanga kujenga shule ya utafiti wa Sayansi

Na Boniface Gideon, TANGA

ILMASHAURI ya Jiji la Tanga imetengeneza eneo maalumu kwa ajili ya ujenzi wa shule itakayohusisha utafiti wa Sayansi kwa shule za msingi na sekondari.

Akizungumza wakati wa ufunguzi wa wiki ya Sayansi Barani Afrika,

Mstahiki Meya wa Jiji hii, Mustafa Selebass, alisema katika mikoa huo maadhimisho hayo yamewakutanisha wanafunzi wa Sayansi zaidi 100 kutoka shule mbalimbali.

Akiongeza kuwa kutokana na mabadiliko ya kisayansi na sera ya serikali ya uchumi wa viwanda, wameamua kuingia mkataba na Taasisi ya Next Einstein Forum, ambayo itasaidia kujenga shule hiyo

maalumu ya Sayansi kwa wanafunzi wa shule za msingi na sekondari mkoani hapo.

Alisema taasisi hiyo itafanya kazi katika Mkoa wa Tanga muda wa miaka 10 mpaka 2030. "Tumetengeneza eneo la ujenzi wa shule hiyo katika kata ya Kiromoni nje kidogo ya mji na watawambua mahitaji ya ukubwa wa eneo pia naomba wanasayansi wafahamu kuwa eneo hilo

hatuwazili tunawaga bure kwa kuwa lina maunika makubwa kwa mikoa yetu wa Tanga," alisema Selebass.

Alisema ili Tanzania ya viwanda itimie ni lazima uwazi kwa wanasayansi viende sambamba na kazi ngazi za chini kutengeneza wataalamu ambao wataaidia kujenga uchumi wa viwanda.

Kwa upande wote haki wa

Next Einstein Forum, wakili mta, Dk. Usaidio Edward, maadhimisho hayo Afrika

fanyika nchini.

Alisema taasisi hiyo inahitaji na serikali za Afrika kazi wanasayansi na Tanzania pamoja katika mikoa yetu, na kwa sasa imeanza kazi michezo ya Tanga, Pwani

es Salaam.

...mote inavyotanya kazi kwenye masasi hayo kwa Maofisa na askari wa Jeshi la Zimamoto na Uokoaji nchini kutika Ukumbi wa Chuo cha Mipango jijini Dodoma jana. (Picha na Jeshi la Zimamoto na Uokoaji)

Tanga yaanza kuwekeza kwenye masomo ya sayansi

Na Hadiza Bagasha, Tanga

■ HALMASHAURI ya Jiji la Tanga kwa kushirikiana na Taasisi ya Project Inspire, imoanza kufanya uwekezaji kwenye masomo ya sayansi kwa wanafunzi wa mwingi na sekondari mkoani hapa.

Lengo la taasisi hii ni kuingia kwenye ushindani wa kidunia katika teknolojia ya kisasa, lakini pia kupata wataalamu kwenye uchoro wa viwanda unaoitazajwa kumani hivi karibuni.

Kauli hiyo ilitolewa na Meya wa Jiji la Tanga, Mustafa Selebosa wakati wa ufunguzi wa Wili ya Sayansi Afrika inayoadhimishwa Desemba 2 hadi 6 kila mwaka ambapo alisema, sayansi itaweza kuwafundisha watoto na kuwaga upaji wa kila ama ya mapambano ya dunia.

Alisema il sara ya uchoro wa viwanda wote kufanikiwa ni lazima kufanya uwekezaji mkubwa katika kuwajengea uwezo wotekezaji wa sera hiyo kuanzia ngazi ya mwingi hadi vyoo.

Tumeingia mkataba na taasisi hii kwa kipindi cha miaka kumi kwa awamu mbili za miaka mitano, ili kuwafundisha wanafunzi weli masomo ya sayansi kwa ajili ya kuwajengea uwezo katika ushindani wa kidunia," alisema Meya huyo.

Alisema bila ya kutiia mkazo masomo ya sayansi, uchumi wa viwanda itakuwa ni ndoto kutisherekea kwa xibendo.

Alisema taji kwa taasisi hii kuwafundisha watoto wanawaga mafunzo hayo ya sayansi kwa kufanya usajili wa kudumu, ili waweze kutafika na mipango huo pindi wanafika shule.

Alisema wao kama halmashauri, watatenga eneo kwa ajili ya kuandeleza ujenzi wa chuo kikubwa cha sayansi kama sehemu ya kupambana na kuingia katika soko la dunia katika masomo ya sayansi.

Naye mkulunzi wa mafunzo hayo kutoka Taasisi ya Project Inspire, Gipson Kawaga alisema wanafundisha sayansi kwa vitendo bazada ya ile ya nacharia ambayo wanapata darasari.

"Tumewaza juma chukuyu wanafunzi 100 kwa ajili ya kupata kuwafundisha kugenda masomo ya sayansi na kuwafundisha majaribio mbalimbali, ili waweze kuwa wataalamu bora hapa baidaye" alisema Kawaga.

Nao wanafunzi walisema kuwa mafunzo hayo, yatawiza kuwasadika kupia kwa vitendo majaribio mbalimbali kwa kutiia dhana hali.

"Mafunzo haya yatawiza kuondoa idhara ya kuwafundisha ya sayansi ni modumu kutokana na namna ambavyo walivyotufika mbeni rafiki za ufundishaji," alisema Fatuma Issa.

'Powerhouse for inspiration' of young scientists okayed

By Zephania Ukwani
@TheCitizenTz

Arusha. An African powerhouse for inspiration, training and coaching of young scientists, engineers and innovators who would spearhead science and technology was yesterday launched here.

Dubbed STEMI-Africa, the programme is an initiative of young scientists and students from 12 African countries that will work under the patronage of the Arusha-based Nelson Mandela African Institution of Science and Technology (NM-AIST).

"Its main vision is to promote increased enrolment in Science, Technology, Engineering and Mathematics' (STEM)-related subjects in schools and colleges," said platform's president Grantina Modern.

Ms Modern was speaking during the launching of the platform at NM-AIST campus near Arusha by the minister for Education, Science and Technology, Prof Joyce Ndalichako.

STEMi-Africa, she added, would support other global and African continental development programmes such as the UN Sustainable Development Goals-2030 and the Africa Agenda-2063. The latter aims to see a prosperous Africa by 2063 based on inclusive growth which would, among others, raise per capita incomes a third more than the 2013 levels.

Job opportunities will be available to at least one in four persons looking for work and seven out of ten of Africa's graduates without access to tertiary education enrolled in technical and vocational education training (TVET). If well implemented through the support of the policy makers, Africa Agenda 2063 envisages the Gross Domestic Product (GDP) of the African countries would be growing at seven per cent by 2063. Launching the platform, Prof Ndalichako challenged the scientific fraternity to look for alternative sources of funds for their routine programmes so as to reduce dependence on state coffers.

"It is difficult to meet all the needs of every scientist and every institution," she said, noting that, with other equally important commitments and financial constraints, the government is unable to raise funds for all the research projects.

Prof Ndalichako acknowledged the role of women scientists in solving the problems which plague local communities through research.

"We also expect scientists to seek and raise funds through their own initiatives in order to sustain their research work", she stressed, urging the platform to utilize the established STEMI programme in the East African Community (EAC).

It is difficult to meet all the needs of every scientist and every institution

MODERN | PLATFORM PRESIDENT

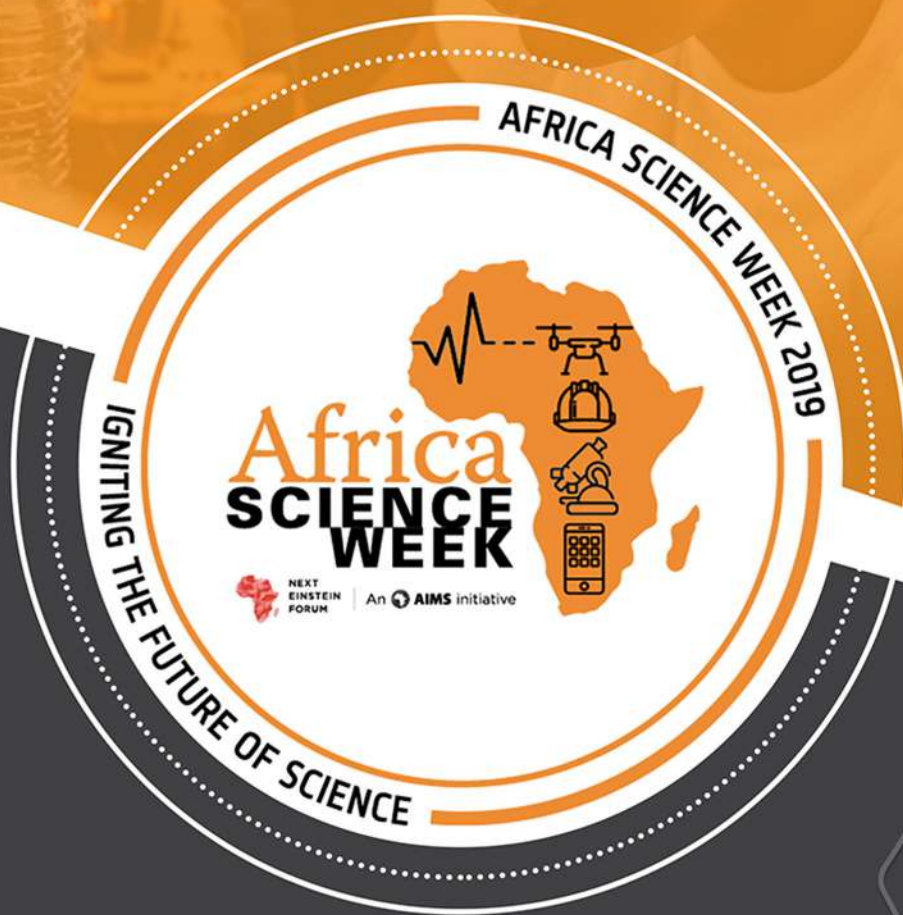
SPONSORS

We are grateful to all our ASW 2019 sponsors; Johnson and Johnson Global, British High Commission - Dar es Salaam, Nabaki Africa, African Development Bank, Government of Rwanda, Projekt Inspire, and Sika.



Local Implementing partners were Nelson Mandela African Institution for Science and Technology, Swiss Science Center Technorama, STEMi Africa Platform, Robotech Labs Tanzania, Almutazir school, and Tanzania Flying labs.





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