



BOTSWANA INTERNATIONAL UNIVERSITY
OF SCIENCE & TECHNOLOGY

PRESENTATION AT THE SCIENCE CENTER WORLD SUMMIT 2017 AT MARIAKAN , TOKYO JAPAN

BY
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FITTING INTO THE THEME

- ✘ **THEME:** Connecting the World for a Sustainable Future.
- ✘ Concern in relation to Sustainable Future?
- ✘ Notwithstanding progress made by the Government, Botswana's skills are not world class and the research and innovation record is weak." BIUST Strategic Plan 2016/17-2022/2023 page 4
- ✘ It is nothing short of a miracle that the modern methods of instruction have not yet entirely strangled the holy curiosity of enquiry

BIUST'S RESPONSE

- ✘ Programs for creating public awareness of science.
- ✘ Making science and technology work for the people
- ✘ Strengthening the pipeline of Mathematics and Science students from pre-tertiary levels of education to BIUST and other tertiary education level

CREATING PUBLIC AWARENESS OF SCIENCE

- ✘ This is done mainly but not exclusively through science circuses
- ✘ Started science circuses with precursor in 2014 and has become an annual activity.
- ✘ So far over 33 000 learners have been exposed to science circuses







MAKING SCIENCE AND TECHNOLOGY WORK FOR THE PEOPLE

- * STEM FESTIVAL;
- * THE FESTIVAL HIGHLIGHTS AND BUTTRESSES THE RELEVANCE AND CRITICALITY OF SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) BY CELEBRATING STEM AND STEM INNOVATIONS AND INVENTIONS, HENCE THE THEME **‘STEM FOR DEVELOPMENT: A SUSTAINABLE FUTURE FOR BOTSWANA’**
- * THE INTENTION IS TO DEMONSTRATE SOCIO-ECONOMIC ADVANCEMENT OR POTENTIAL ESPOUSED IN THE STEM CURRENTLY EMPLOYED

THIS IS BECAUSE;

- ✦ “there is a growing consensus that it is the quality and performance of the **nation’s education and skills development system coupled with vibrant innovation systems** that will be the tool to **unlock the nation’s potential and drive the transformation agenda.**” BIUST Strategic Plan 2016/17-2022/23

STEM FESTIVAL 2017

- ✘ Held from the from 14th to 16th April 2016
- ✘ **THEME:** THEME 'STEM FOR DEVELOPMENT: A SUSTAINABLE FUTURE FOR BOTSWANA
- ✘ **Activities :** Science shows, Exhibits and Seminar talks
- ✘ **Venue :** Francistown Botswana

BIOST

BOTSWANA INTERNATIONAL UNIVERSITY
OF SCIENCE & TECHNOLOGY



One day I hope to buy this dog feeder when it will have been commercialized.



The man with a zeal and passion for his project, show casing his project.

STRENGTHENING THE PIPELINE

- ✘ Both the Science circuses and STEM festival are meant to inspire learners and get some to be interested in STEM and STEM innovation
- ✘ But yet another program ; Inquiry based science learning



Recording a necessary science process



Making Mathematics to be real



Using readily available materials to teach mathematics concepts



Looking at properties of soil



Investigating wind direction

WHERE DO WE WANT TO GO!

- ✘ Establish a science centre
- ✘ Facility is available at the university
- ✘ First set of materials for building the first set of exhibits have been procured.
- ✘ What is needed is mainly professional expertise in building exhibit
- ✘ Target date for official opening of the centre is April 2018

WHY SCIENCE CENTRE AT BIUST

- ✘ The very first one in the country.
- ✘ The centre is meant “to connect personal lives with science in concrete ways and to promote change”
- ✘ Through this scientific literacy and appreciation of science work towards “A Sustainable Future”

REFERENCE

- ✘ BIUST strategic plan **Plan2016/17-2022/23**
- ✘ STEM festival exposition notes