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## REPORT ON TRAINER OF TRAINERS WORKSHOP AT UENR, SUNYANI, GHANA SCHOOLS



**Prepared by**

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## SUMMARY

As part of the project “*Strengthening Innovations and Technology Dissemination for Sustainable Development in Cereals, Cocoa and Coffee Value Chains in Western and Eastern Africa*” (SATTIFS) in Ghana, a Trainer of Trainers workshop was organized for twenty three (23) participants made up of Agricultural Extension Officers, Farmers Group leaders, Food processors and GRATIS Foundation staff from Sunyani, Goaso, Akrodie, Techiman, Wenchi and Nkoranza. The residential training took place at the University of Energy and Natural Resources, Sunyani from Wednesday August 26<sup>th</sup> to Sunday August 30<sup>th</sup> and continued from Monday September 7<sup>th</sup> to Wednesday September 9<sup>th</sup> 2015. The lecturers were Professor Paa Nii Johnson and Professor Emmanuel Ohene Afuakwa from the University of Ghana, Legon. They took the participants through Post Harvest Technology and Economics and Food Safety and Quality Assurance respectively. Dr. Ben K. Banful from Kwame Nkrumah University of Science and Technology, Kumasi, took the participants through the Principles of Sustainable Agriculture. This training was conducted for Farmer Field Schools intended to train other local farmers in the effective use of current and appropriate technologies in the maize and cocoa production value chains. The emphasis was on the correct application of production inputs that would sustain the environment as well as maximize production in the field. At the end of the workshop, the participants agreed that the training has exposed them to technologies that they already knew but have always taken them for granted. It also provided them the platform to discuss the challenges they face in their production cycle and value chains. In all, the participants were very appreciative of the workshop. The workshop also gave CITED staff the opportunity to invite the farmers for the impending Mid-year SATTIFS conference to be held from September 29<sup>th</sup> to October 1, 2015

### **1.0 Introduction**

The “*Strengthening Innovations and Technology Dissemination for Sustainable Development in Cereals, Cocoa and Coffee Value Chains in Western and Eastern Africa*” is a project aimed at building capacity in science, technology, and innovation in West and East Africa to boost food security, reduce/alleviate poverty and enhance socio-economic development. It is being implemented in several communities in the Brong Ahafo and Ashanti Regions of Ghana. The Ministry of Food and Agriculture, cocoa and maize farmers, artisans, processors and other practitioners in the cocoa and maize value chains have been identified as key stakeholders to participate in the research and as beneficiaries of the training and the research outcomes of this project.

This is a report on a nine (09) day residential Trainer of Trainers (TOTs) workshop organized for twenty three (23) participants, made up of Agricultural Extension Officers, Cocoa and Maize farmers from various farmer groups, Food processors and staff from Gratis Foundation in Sunyani, Goaso, Akrodie, Techiman, Wenchi and Nkoranza in the Brong Ahafo Region of Ghana. The workshop was organized to expose participants to existing technologies available in their farming practices. It also exposed the farmers to sharing of experiences and how they could help in the dissemination of the technologies to other farmers. It also provided a learning platform for farmers and extension officers to interact with each other.

## 2.0 Methodology and results

The residential training took place at the University of Energy and Natural Resources, Sunyani from Wednesday August 26<sup>th</sup> to Sunday August 30<sup>th</sup> and continued from Monday September 7<sup>th</sup> to Wednesday September 9<sup>th</sup> 2015.



**Figure 1: Group photograph and facilitation during the TOT Workshop**

The Lecturers for the training workshop were Professor Paa Nii Johnson and Professor Emmanuel Ohene Afuakwa from the University of Ghana, Legon. They took the participants through Post Harvest Technology and Economics and Food Safety and Quality Assurance respectively. Dr. Ben K. Banful from Kwame Nkrumah University of Science and Technology, Kumasi, took the participants through the Principles of Sustainable Agriculture. Twenty three (23) participants took part in the nine days (9) workshop. The participants were made up of Agricultural Extension Officers, Cocoa and Maize farmers, Food Processors from Nkoranza, Techiman Wenchi, Sunyani and Goaso/Akrodie and GRATIS Foundation staff (Table 1).

**Table 1: List of Participants**

<b>No</b>	<b>NAME</b>	<b>Official Address</b>	<b>E-mail</b>
1	Nyame Abroquah Samuel	MOFA, Box 100, Wenchi	<a href="mailto:snyameabroquah@yahoo.com">snyameabroquah@yahoo.com</a>
2	Gyasi Eric	MOFA, Box 635, Sunyani	<a href="mailto:ericgyasi2010@yahoo.com">ericgyasi2010@yahoo.com</a>
3	Francis Dwomoh	MOFA, Box 635, Sunyani	<a href="mailto:akito9@gmail.com">akito9@gmail.com</a>
4	Opoku Comfort	Box 8, Tanoso	
5	Felicia Akudago	Box 257, Techiman	
6	I. Abdulai Salifu	MOFA, Box 257, Techiman	<a href="mailto:ab.tiani@yahoo.com">ab.tiani@yahoo.com</a>
7	Isaac Adjei	EKA Foods, Sunyani	<a href="mailto:kellyadjei91@gmail.com">kellyadjei91@gmail.com</a>
8	Helena Oppong-Kyeremeh	University of Energy and Natural Resources, Sunyani	<a href="mailto:helenoky@gmail.com">helenoky@gmail.com</a>
9	Charles Acheampong	Cocoa Health Extension Division, Cocobod, Goaso	<a href="mailto:charlesacheampong25@yahoo.com">charlesacheampong25@yahoo.com</a>
10	Akwasi Adusei	Cocoa Farmer, Goaso, Akrodie	
11	Asamoah Acheampong	Cocoa Farmer, Goaso, Akrodie	
12	Adjei Manu	Cocoa Farmer, Goaso, Akrodie	
13	Ameli Atti	GRATIS Foundation, Sunyani	<a href="mailto:attimelik2@yahoo.com">attimelik2@yahoo.com</a>
14	J. K. Mensah	GRATIS Foundation	
15	Laureen Fraikue	Cocoa Health Extension Division, Cocobod, Goaso	<a href="mailto:lfraikue@gmail.com">lfraikue@gmail.com</a>
15	Datuah Y. Philip	MOFA, Box 85, Nkoranza	<a href="mailto:datuahphilip@gmail.com">datuahphilip@gmail.com</a>
17	Gyan Forkuo Caxton	Maize Farmer, Nkoranza	
18	Stephen Agyekumhene	EKA Foods, Sunyani	<a href="mailto:step2aso@yahoo.com">step2aso@yahoo.com</a>
19	Addai Augustus	MOFA, Nkoranza, Box 85	<a href="mailto:addaiaugustus@yahoo.com">addaiaugustus@yahoo.com</a>
20	E. K Adjei	EKA Foods Sunyani	<a href="mailto:foo.gheka@yahoo.com">foo.gheka@yahoo.com</a>
21	Kobah Seth Mark	MOFA, Box 100, Wenchi	<a href="mailto:markkobah@yahoo.com">markkobah@yahoo.com</a>
22	Dickson Effah	Yedent Agro Food Processing	<a href="mailto:effadickson@yahoo.com">effadickson@yahoo.com</a>
23	Amansia Twum Joseph	Amansia Farms, Wenchi	

The lecturers of the training workshop were Professor Paa Nii Johnson and Professor Emmanuel Ohene Afuakwa from the University of Ghana, Legon. They took the participants through Post Harvest Technology and Economics and Food Safety and Quality Assurance respectively. Dr. Ben K. Banful from Kwame Nkrumah University of Science and Technology, Kumasi, took the participants through the Principles of Sustainable Agriculture (Table 2).



**Figure 2: Participants contributing to discussions during the TOT workshop**

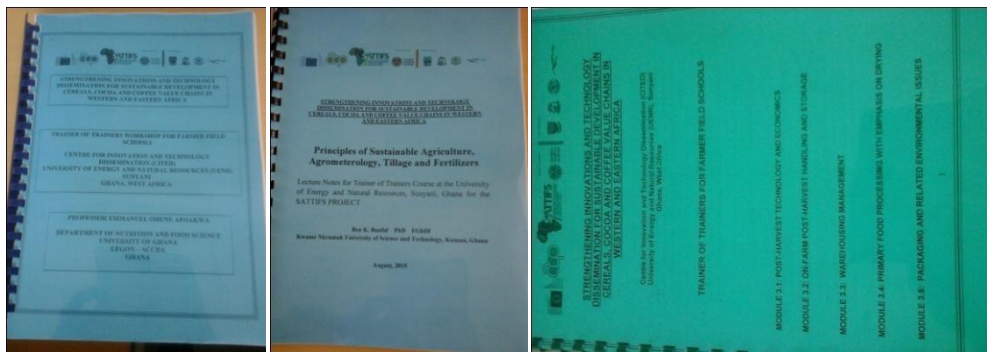
The workshop was participatory with contributions and experiences from the participants. This provided a very cordial atmosphere for knowledge sharing.

**Table 2: Workshop Time Table.**

TIME	TOPIC	BREAK	LECTURER
<b>WEDNESDAY 26<sup>th</sup> August</b>			
8:00 am	ARRIVAL, REGISTRATION, ETC		
12:15 pm			
12:30 pm – 1:30 pm		Break	
1: 30pm – 3:30 pm	Post-harvest Management – overview		Prof. Paa Nii Johnson
3:30 pm – 5:30 pm	Postharvest Technology and Economics		
		Break	
7:00pm – 9:00pm	Postharvest Technology and Economics		
<b>THURSDAY 27<sup>th</sup> August</b>			
8:00 am – 10:00 am	On-farm postharvest handling and storage practices		Prof. Paa Nii Johnson
10:15 am – 12:15 pm			
12:30 pm – 1:30 pm		Break	
1: 30pm – 3:30 pm	Warehouse management Drying, packaging and environmental control		Prof. Paa Nii Johnson
3:30 pm – 5:30 pm			
		Break	
7:00pm – 9:00pm			
<b>FRIDAY August 28<sup>th</sup></b>			
8:00 am – 10:00 am	Drying, packaging and environmental Control		Prof. Paa Nii Johnson
10:15 am – 12:15 pm			
12:30 pm – 1:30 pm		Break	
1: 30pm – 3:30 pm			Prof. Paa Nii Johnson
3:30 pm – 5:30 pm	Processing techniques		
<b>SATURDAY August 29<sup>th</sup></b>			
8:00 am – 10:00 am	Principles of Sustainable Agriculture – overview		Dr. Banful
10:15 am – 12:15 pm	Production Sustainability I		
12:30 pm – 1:30 pm		Break	
1: 30pm – 3:30 pm	Production Sustainability II		Dr. Banful
3:30 pm – 5:30 pm	Economics and Social Sustainability		
		Break	
7:00pm – 9:00pm			Dr. Banful
<b>SUNDAY August 30<sup>th</sup></b>			
8:00 am – 10:00 am	Agro-meteorology, Soils and Tillage		Dr. Banful
10:15 am – 12:15 pm	Manures and Fertilizers		
		Break	
1: 30pm – 3:30 pm	Organic Farming		Dr. Banful
3:30 pm – 5:30 pm	Dry land Agriculture, Irrigation and water management		
		Break	
6:00pm-8:00pm	Dry land Agriculture, Irrigation and water management		Dr. Banful

TIME	TOPIC	BREAK	LECTURER
<b>Monday September 7, 2015</b>			
8:00 am – 10:00 am	Food Safety and Quality Assurance– overview		Prof. Ohene Afoakwa
10:15 am – 12:15 pm	The Agric food chain		
12:30 pm – 1:30 pm		Break	
1: 30pm – 4:30 pm	Food safety and related hazards		Prof. Ohene Afoakwa
<b>Tuesday September 8<sup>th</sup>, 2015</b>			
8:00 am – 12:15 pm	Control on food safety in the agricultural food chain		Prof. Ohene Afoakwa
12:30 pm – 1:30 pm		Break	
1: 30pm – 4:30 pm	Food safety laws and regulations		Prof. Ohene Afoakwa
<b>Wednesday September 9<sup>th</sup> 2015</b>			
8:00 am – 12:15 pm	The principles of analytical techniques for food microbiology and chemistry		Prof. Ohene Afoakwa
12:30 pm – 1:30 pm		Break	
1: 30pm – 3:30 pm	The principles of analytical techniques for food microbiology and chemistry		Prof. Ohene Afoakwa
3:30 pm – 5:30 pm	The principles of analytical techniques for food microbiology and chemistry		Prof. Ohene Afoakwa

It was a participatory joint learning platform which helped to ascertain how the appropriate use of technologies and proper practices could influence the yield of maize and cocoa production in their various localities. All participants were provided with course materials by the lecturers (Figure 3).



**Figure 3: Resource materials provided by the Lecturers.**



**Figure 4: Pictures from opening, facilitation to the closing ceremony.**

### **Conclusion**

Overall, the participants were very appreciative of the training given to them at the workshop and other project activities. They, however, emphasized the need for the development of sustainable agriculture and postharvest management system in Ghana with focus on efficient storage and marketing to enable maize farmers obtain good price for their produce. They also emphasized on the improvement of food processing techniques to enhance quality. All stakeholders should work together to promote the eating of good healthy foods. Certificates of participation were given to each participant.



## Annex

### Some Comments and Evaluation from participants

*“The whole program was very useful especially to me in particular, because I have received a lot of information which I have never met and hope such useful programs must be organized from time to time for us to do what is right”.*

- *Subject matter- perfect*
- *Style of presentation- excellent*
- *The presentation was good and understandable.*
- *Timing was accurate.*
- *We give good and better explanation on the topics treated.*
- *The program was very successful.*
- *Facilitation – lovely*
- *Satisfactory and presentation was participatory.*
- *“I have learnt a lot in this third module. I have been educated on food contamination, food hazard and safety regulation which will help me personally and the intended beneficiaries at large.”*
- **Expectations:** *To increase my knowledge on Post harvest technology, Sustainable Agriculture and Food safety and can also teach others.*
- **Facilitation:**
  1. *Very good.*
  2. *Facilitators were on top of the subject/ very good facilitation and allow for participation.*
  3. *Facilitation of lectures was normal.*
  4. *Facilitation was very good.*
- **Training materials:** *In depth information about the subject matter.*
- **Training environment:** *Very good environment.*
- *“Has taught me or enlighten me more about food laws and regulations and especially food security.”*

- **Knowledge gained:** *“very superb especially in this global world with enormous challenge.”*
- **Handout:** *Well prepared*