

REPORT AFTER ATTENDANCE TO TRAINING/ CONFERENCE/SEMINAR/WORKSHOP/FORUM

I. Title of training, conference, seminar/workshop, and forum attended:
Tropical Agrosilvopasture for Sustainable Nature-based Product Development

II. Date & Venue:
October 16-27, 2023
Vocational College, Universitas Gadjah Mada, Yogyakarta, Indonesia

III. Organizer/Sponsor:
Southeast Asian Regional Center for Agriculture (SEARCA)
Vocational College, Universitas Gadjah Mada

IV. What are the most important learnings you got during this activity?

During this 2-week straight summer course training at the Vocational College Universitas Gadjah Mada, Yogyakarta, Indonesia, from October 16-27, 2023, I was exposed to the agrosilvopasture farming system of Yogyakarta, Indonesia, mainly in the cacao, goat, and forest management practices, and product development.

In the cacao commodity, I was able to visit the traditional method of cacao farming at the community-based cacao farm of Ngelanggeran, Gunung Kidul, and learned the cultural management and practices. I also witnessed and experienced the multistep process of making chocolate from cocoa in traditional and technological ways. The process starts with cocoa beans, fermentation to develop the flavor, drying the beans, roasting, conching, tempering, finishing with molding, and packing the chocolate.

For the goat and goat's milk management and product development, I was able to visit and have an immersion activity at the Ngelanggeran, Gunung, Kidul, and Turi, Sleman. I have seen the different breeds of goats, learned the feeding management they have on the farm, and witnessed the processes of making the goat's milk powder in a traditional method such as 1) Pour liquid goat's milk into a frying pan and then heat the liquid goat's milk over low heat 2) While heating, add granulated sugar to the goat's milk 3) Stir the milk and sugar mixture until it thickens and forms crystals 4) Additional flavours, such as chocolate, vanilla, strawberry, and ginger, can be added according to taste 5) Milk that has become crystals is ground into a fine powder and ready-to-be-packaged. I was also able to visit the Field Research Center of Universitas Gadjah Mada, located at the Kolon Progo, and perform

the processing of UHT Milk with the following steps 1) turn on the UHT/HTST machine and chiller 2) set the temperature and pump speed on the touch screen control panel and the pressure on the backpressure valve 3) put the milk into the feed hopper 4) collect processed milk through the product outlet hose 5) clean In Process (IP) with the following stages: water, 20% NaOH for 30 minutes, water, 20% citric acid for 30 minutes, and water. The main goal and purpose of processing powdered goat's milk is to maintain shelf life and be safe for consumption.

Another important topic included in the summer course training was Forest Management. In this, I learned about their forest management practices and was able to visit and see their logyard, sawmill, nursery, and community forest at the Koperasi Wana Manunggal Lestari, Gunul Kidul, and the Pine Forest Ecotourism at Mangunan Bantul. I was also able to learn the current shifting of strategy and paradigm employed in forest management at Yogyakarta is the timber orientation and non-timber orientation, state-based, and community-based. The strategies include timber extraction, timber management, forest resources management, forest ecosystem management, and landscape management, while state-based forest management, cooperative forest management, collaborative forest management, and community-based forest management on the paradigm side. The role of community forest management is increasing because of the social forestry program scheme in Indonesia such as forest cooperation, community plantation forest, village forest, community forestry, and customary forest.

Generally, the observations, experiences, and learnings I had from this training were the strong involvement, participation, and support of the different sectors from the Community, Government, Academics, Private Institutions, SOE Cooperation, and Non-Government Organizations to develop sustainable nature-based products.

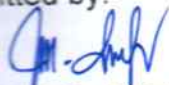
V. How can you apply the said learnings you gained to improve your performance?

As a junior faculty and the new unit head of the Ecological Farm and Resource Management Institute (Eco-FARMI) who has less research and extension involvement in the innovation and development of sustainable farming systems for different agroecosystems as our major Institute's mandate, this training is very significant and relevant to me. I will apply my observations, experiences, and learnings I had during the training through the development of a nature-based product, propose multidisciplinary research like agrosilvopasture concept, and enhance the existing Institute's Demonstration Farm.

VIII. Attachment: Photocopy of Certificate of Participation/Attendance/
Appreciation, and Photographs, if available

Completion Certificate and Some Photographs during the Summer Course Training are attached here.

Submitted by:



JEROME O. ARRIBADO

Noted:

MARIA JULIET C. CENIZA

Vice President for Research, Extension,
and Innovation

Approved:

BEATRIZ S. BELONIAS

Vice President for Academic Affairs

(This report shall be submitted in lieu of the Travel Report which is required prior to the COVID 19 pandemic. It shall be submitted to the L & D Office of the ODHRM within 30 days from date of attendance. Future request to attend trainings/workshops/fora will not be processed unless the report from previous attendance has been submitted).

APPENDIX 12: RE-ENTRY ACTION PLAN TEMPLATE

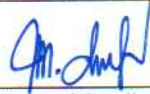
Scholarship for Graduate Studies Abroad and International Relations
CHED K to 12 Transition Program

International Continuing Professional Education (ICPE) Grant
Re-Entry Action Plan

Name of Applicant	JEROME O. ARRIBADO
ICPE Grant Applying for	Leveling-Up Philippine Higher Education Institutions in Agriculture, Fisheries, and Natural Resources
Delivering Institution of ICPE Grant	Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA)
Name and Address of Sending HEI	Visayas State University, Visca, Baybay City, Leyte
Months/Years Employed in Sending HEI	2 years and 5 months

Timeframe	<p>The expected re-entry of the applicant after completion of the training will be on October 30, 2023.</p> <p>The applicant will render a one (1) year return service in the sending HEI after completion of training, October 2023 - September 2024.</p>
Designation/Status	Instructor 1/Permanent Regular
Context	<p>Agriculture is considered the backbone of the economy of all countries. However, Philippine Agriculture is fronting numerous challenges contributing to the insufficiency, and instability supply of agricultural products in the market. Challenges may include climate threats, high costs of animal feed and fertilizer, farming systems, and the absence of irrigation systems. These should be addressed and resolved to mitigate and achieve food sustainability.</p> <p>The utilization and application of agrosilvopastoral management systems could cut down the challenges and marginally attain food sustainability, safety, and quality, mitigate climate change/risks, and improve the community's economy in terms of resources and management. This system is an integrating component of agricultural activities with interrelated forestry and livestock/animal sectors. The primary goal of this system is to integrate processes between sectors in the farming industry that mutually utilizes the residue of an industry's management process, reused in other sectors to produce other useful benefits.</p> <p>Furthermore, several opportunities can be drawn from these issues to achieve food sustainability, such as the development and utilization of available idle lands with potential as farmlands, formulation of animal feed from locally available feed materials, and strategies farming systems.</p> <p>This two-week course also provides a great opportunity for the applicant to enhance his knowledge and professional skills as a Graduate of the Master of Science in Animal Science, and employed at the Institute working on its mandate to develop concepts, knowledge, and practices on ecological and sustainable management of farm and landscape resources focusing on 1) Eco - Functional Crop and Livestock Production System, 2) Integrated Crop Management (ICM), and Soil Health Management, 3) Appropriate</p>

	Technologies for the Development of Ecological Farming Inputs and outputs, and 4) Innovative Knowledge Management to Mainstream Ecological Farming.
Objectives	At the end of this summer course training on Tropical Agrosilvopasture for Sustainable Nature-Based Product Development, the following objectives can be attained: <ol style="list-style-type: none"> 1. Acquire knowledge of the new trends and strategies in the agrosilvopastoral management systems, and formulate a research proposal with an integrated farming system approach 2. Apply the acquired learnings by enhancing the Institute's Demonstration Farm by utilizing the Integrated farming system
Outcomes	After this summer course training, the following outcomes could be achieved: <ol style="list-style-type: none"> 1. Conduct research with an integrated farming system approach 2. Enhance the existing Institute's Demonstration farm using the learnings from the training through an Integrated-Diversified farming system approach



Signature of Applicant

November 20, 2020

Date

I hereby certify that the above information is true and correct and that
Visayas State University has committed to the above reentry plan for
JEROME O. ARRIBADO

MARIA JULIET C. CENIZA

Name and Signature of Vice-President for
Research, Extension, and Innovation

VISAYAS STATE UNIVERSITY

Name of School/College in SHEI

CERTIFICATE OF COMPLETION

This certificate is awarded to :

Ferome D. Arribado

for completing the Summer Course on "Tropical Agrosilvopasture for Sustainable Nature-based Product Development" from October 16th to 27th, 2023, at Department of Bioresources Technology and Veterinary, Vocational College, Universitas Gadjah Mada



Prof. Dr.-Ing. Ir. Agus Maryono, IPM., ASEAN Eng.

Dean



SEKOLAH VOKASI

UNIVERSITAS GADJAH MADA





FIELD RESEARCH CENTER

UNIVERSITAS GADJAH MERAH

SEARCHA

Summer Course 2025
Tropical Agrosilvopasture for Sustainable
Nature Based Product Development

