



VSU R&D ANNUAL REPORT (January to December 2021)

Center/College/Department: **Ecological Farm and Resource Management Institute
(Eco-FARMI)**

A. Research papers/posters disseminated/presented

TITLE OF PAPER/POSTER	DATE, VENUE	RESEARCHERS/PRESENTERS
a. Institutional		
b. Regional		
Standardization, Reformulation, and Utilization of Organic Fertilizers in Visayas Region	March 19, 2021	Romel B. Armecin Warren Kim Siarot Suzette B. Lina
c. National		
d. International		

B. Attendance of researchers to scientific *foral* training/workshop/seminars

TITLE	DATE, VENUE	RESEARCHERS ATTENDED
a. Institutional		
GEOHECRAS on-line webinar	June 30, 2021	Pastor P. Garcia
Webinar on Root System Architecture and Root and Tuber Crop Productivity: Novel Insights From The Sweetpotato	June 25, 2021	Dhenber C. Lusanta
Webinar on USSO Leadership Summit 2	June 18, 2021	Jerome O. Arribado
Webinar on Managing Genetically Superior Duck Lines: Itik Pinas	April 15, 2021	Jerome O. Arribado
Webinar on Smart Farming: The Future of Agriculture Production	March 24, 2021	Jerome O. Arribado
Virtual Orientation on the Comprehensive Land Use Development Plan Preparation for Visayas State University	March 18, 2021	Pastor P. Garcia
b. Regional		
32 nd Joint ViCARP and RRDEN Regional RDE Symposium	March 23-24, 2021	Dhenber C. Lusanta
33 rd Joint ViCARP and RRDEN Regional RDEI Symposium	November 18, 2021 via Zoom	Dhenber C. Lusanta Jerome O. Arribado Warren Kim Siarot
c. National		
Webinar on Cacao Processing and By-product Processing	June 24, 2021	Dhenber C. Lusanta
Drone Khmer Technology for Sustainable and Resilient Food Systems: "Rebooting Agriculture in	June 15, 2021	Dhenber C. Lusanta

the New Normal: Webfresher Courses"		
Aggie Ps Talk 5.0: AgriCOOLture Youth Champions: "Rebooting Agriculture in the New Normal: Webfresher Courses"	June 15, 2021	Dhenber C. Lusanta
Philippine Alocasia Conversation and Sustainable Management	June 9-11, 2021 Online training course	Jerome O. Arribado Dhenber C. Lusanta
GPPB Training	April 3-7, 2021	Pastor P. Garcia
Virtual orientation on data privacy act of 2012	Feb 18-19, 2021	Pastor P. Garcia
d. International		
Going beyond the fundamentals of journal publishing – reproducibility in research	June 2, 2021/On line-virtual/Elsevier/with e-certificate	Romel B. Armecin
Managing Research Remotely: Learning from 2020 and Moving Forward in 2021	April 21, 2021 Online/ Elsevier	Dhenber C. Lusanta
Best Practices in Writing and Publishing Your Research Paper	April 16, 2021 Online/DOST/ Elsevier	Dhenber C. Lusanta
MAHFSA Regional Workshop and Consultation Meeting for Capacity Building and Knowledge Product Development	March 16, 2021	Pastor P. Garcia
Science Direct Articles and Journals: Choosing the Right One for Your Research	Jan 29, 2021/On Line-Virtual/Elsevier/with e-certificate	Romel B. Armecin Dhenber C. Lusanta
John Dillon Fellowship	July-October 2021	Dhenber C. Lusanta

C. Technologies/Information patented and commercialized

- Technology patented (**Please give a brief description of the technology, generator and the status of patenting**)
- Technology commercialized (**Please give a brief description of the product, impact and the researcher/generator**)

D. Research papers published

	TITLE	AUTHOR (S)	DATE/YEAR/PUBLICATION/ PUBLISHER	
a. Refereed Journal				
Institutional				
National				
International	Determination of the Critical Phosphorus Concentration for Corn (Zea mays L.) Using the EBB and Flow System	Mark Anthony Barbadillo, Romel Armecin, Warren Kim Siarot	June 27, 2021/ Eurasian Journal of Agricultural Research	
	Yield and	Dhenber	June 27, 2021/ Eurasian	

	nitrogen uptake of lettuce (<i>Lactuca sativa</i> L.) as influenced by different rates of vermicast grown in sandy soil	LUSANTA, Warren Kim SIAROT, Zenaida C. GONZAGA	Journal of Agricultural Research	
	Determination of Critical Potassium Concentration of Corn (<i>Zea Maize</i> L.) at Early Stage of Growth Using Flood and Drain Technique	Warren Kim SIAROT, Romel ARMECIN, Dhenber LUSANTA	June 27, 2021/ Eurasian Journal of Agricultural Research	
b. Semi-popular publ'n (newsletter, etc.)				
c. Popularized publ'n (technoguides, etc.)				
d. Book Chapter/s				
e. Books				

E. R and D awards and recognitions received

NAME OF AWARDS	TITLE OF PAPER/ POSTER GAINED AWARD	RECIPIENT/S	PLACE AWARDED	DATE AWARDED	AWARD OBTAINED (Plaque; if cash, indicate amount)	SPONSORING AGENCY
a. Institutional						
b. Regional						
c. National						
d. International						

F. R and D inter-agency linkages forged/maintained

NAME OF AGENCY	NATURE OF LINKAGE	Brief Description of Linkage	Remarks (specify amt generated, etc.)
a. Local (with LGUs, NGOs, POs)			
City Agriculture Office – Baybay, City (CAO)	Partner	Conduct training and seminars together for the benefit of Baybay City farmers	
LP Farm & Matag-ob Leyte	Partner	Provide technical assistance.	

b. Regional			
c. National			
d. International			

G. List of Ongoing/ Completed R&D Projects

Program/Project/ Study Title	Proponent/s	Collaborator/ cooperator	Lead Agency	Collaborating Agency
I. ONGOING VSU-Funded Projects/Studies				
Theme 1. Eco-functional Crop-Animal Production System				
Project 4: Organic Production of Non-traditional Meat Sources	JOArribado			
Study 1: Performance of organically grown rabbits supplemented with different forages and pelletized concentrate materials				
Theme 2: Integrated Crop Management and Soil Health Improvement				
Project 2: Assessment of Climate Smart Farming Systems in Hilly Upland Areas	RBArmecin DCLusanta			
Study 1: Assessment the influence of different live hedgerows on the soil erodability of the degraded upland				
Study 2: Response of organically grown cash crops in different hedgerow combination				
Project 3: Integrated Nutrient Management for Horticultural Crops (Vegetables, Fruits and Herbs)	RBArmecin DCLusanta			
Theme 3: Appropriate Technologies for Development of Ecological Farming Inputs and Products				
Project 1: Standardization, reformulation and Utilization of Bio- fertilizers	RBArmecin SBLina			
Study 3: Evaluation of the formulated BOF on the growth and yield performance of chili and eggplant				
Project 2: Development of drum type rapid composter	PPGarcia			
II. ONGOING Externally-Funded Projects/Studies				
Standardization, Reformulation and Utilization of Organic Fertilizers in Visayas Regions	RBArmecin		DA-BAR	VSU
Geoinformatics study of Leyte Sab-a Basin	PPGarcia		FFP	

Hydrology study of Leyte Sab-a Basin	PPGarcia		FFP	
III. EXTENSION				
Integrated extension program "Participatory Eco-Farming Program for the Visayas"	DCLusanta/ JOArribado		VSU	
IV. Income Generating Projects (IGPs)				
STF Eco-FARMI SeedbankC	RBArmecin (January- June 2021) JOArribado (July- December 2021)		VSU	

H. List of Trainings/ Seminars/ Workshops Conducted

Title of Training/Seminar/Workshop	Date conducted	Venue	No. of Participants	Sponsoring Agencies
Hands-on Training on Vermicomposting	June 23, 2021	Barangay Caridad, Baybay City, Leyte	20	City Agriculture's Office of Baybay City & Eco-FARMI, VSU
Hands-on Training on Vermicomposting	June 30, 2021	Barangay Caridad, Baybay City, Leyte	15	City Agriculture's Office of Baybay City & Eco-FARMI, VSU
Hands-on Training on Biofertilizer Production and Natural Farming Concoctions	July 9-28, 2021	Brgy. Higuloan, Baybay City	32	Eco-FARMI, VSU & CAO-Baybay, City
Hands-on Training on Biofertilizer Production and Natural Farming Concoctions	August 24-September 8, 2021	Brgy. Hibunawan, Baybay City	16	Eco-FARMI, VSU & CAO-Baybay, City
Hands-on Training on Biofertilizer Production and Natural Farming Concoctions	October 22-November 10, 2021	Brgy. Imelda, Baybay City	15	Eco-FARMI, VSU & CAO-Baybay, City

I. List of equipment/facilities purchased/enhanced

Equipment Purchased/ Upgraded/ Facilities Enhanced	Location/ Agency	Expenditure/ Cost	Source of Funds
Upgrading of Organic Agriculture Laboratory	Eco FARM- VSU	3M	DA-BAR
Water Distillation Unit, LASANY LPH-4	Eco FARM- VSU	58,300.00	DA-BAR
General Purpose Waterbath, Polyscience*, 20L (SN: EI990810)	Eco FARM- VSU	68,000.00	DA-BAR
Compound Microscope, Olympus CX33RTFS2	Eco FARM- VSU	149,800.00	DA-BAR
UV-Vis Spectrophotometer, GENESYS 150 Thermo Scientific with 1 set Match Cuvette (Quartz)	Eco FARM- VSU	465,000.00	DA-BAR
Microscope Camera, AMSCOPE 5 (AMAZON MU500-CK)	Eco FARM- VSU	29,800.00	DA-BAR
Laboratory Fumehood, BIOBASE FH 1800	Eco FARM- VSU	236,000.00	DA-BAR

(A), 220V, 60Hz			
Analytical Balance, RADWAG AS220	Eco FARMi-VSU	89,000.00	DA-BAR
pH/Conductivity Benchtop Meter, Peak Instrument w/ electrode & solution	Eco FARMi-VSU	65,000.00	DA-BAR
Brush Cutter	Eco-FARMi		