

# Initiatives springing from Mt. Makiling





*Following is a sample of initiatives in my (Pam) network at UPLB... about people doing “quantum” or strategic work*



<http://www.imaginalmission.net/web2.0/>

**Presented as a  
MISSION  
initiative for the  
Liwana World  
Festival**



LIWANAG

WORLD FESTIVAL ON CREATIVITY AND SUSTAINABILITY

2013 JAN 29 – FEB 2 | PHILIPPINE WOMEN'S COLLEGES | DAVAO CITY, PHILIPPINES



MISSION



LIFEBANK



DAVAO CITY



AIS-CIN



DAVAO CITY  
CHAMBER OF COMMERCE  
AND INDUSTRY, INC.



ASSOCIATION  
OF REGIONAL EXECUTIVES  
IN NATIONAL AGENCIES

**REGISTRATION NOW GOING ON**

[Home](#) [Liwana](#) [Event](#) [Updates](#) [Partners](#) [Contact](#) [Exhibit Map](#) [Reflections](#)



#### LATEST NEWS

**Jan 29 to Feb 2 in Davao  
is Creativity and Sustainability Week**

During this week, the **LIWANAG** World  
Festival on Sustainability and Creativity  
will take place in the city... [MORE](#)



<http://liwanagworldfest.net/web2.2/>



**Pam Fernandez:**



# Quantum Agriculture, Agnihotra & Homa Therapy, Science of the Indigenous



<http://www.facebook.com/pamela.fernandez.9693>



**Quantumizing the academe... Exhibit 2006:**  
*Planting the Seed of Transformation in UPLB...  
opening ceremonies with school officials.*





**you are cordially invited to the**

# **Seed Fair Exhibit**

**birthing a “seed for societal transformation” in the academe**



**March 21-23, 2006**  
**Agronomy Bldg. UPLB**



# Quantumizing Exhibit Fair 2009



QUANTUMIZING  
AGRICULTURE, SEED, AND FOOD  
FOR EARTH AND HUMAN HEALING;  
AND THE SCIENCE OF ANCIENT FILIPINO WAYS  
BEING A SEASIDE OF NEW CONSCIOUSNESS, NEW SCIENCE,  
NEW APPROACHES, NEW SEED. CONTRIBUTE TO CHANGE  
IN SOCIETY THROUGH YOUR UNIQUE CAPACITIES. LEARN  
TO CHANGE YOUR REALITY THROUGH YOUR THOUGHTS.  
ATTEND A SCIENTIFIC SUNRISE/SUNSET PRACTICE  
THAT QUANTUMLY HEALS ALL AROUND IT. KNOW THE  
REASON FOR SEEMINGLY MIRACULOUS SUPERSTITIOUS  
PHENOMENA. SCIENCE CAN EXPLAIN THEM. KNOW HOW TO  
QUANTUMIZE FOOD AND EARTH FOR HEALTH AND  
GREATER CONSCIOUSNESS.

AND MANY MORE

ENJOY  
FEEL WELL  
GET  
INSPIRED

EXHIBIT-FAIR  
AGRONOMY  
CROP SCIENCE BUILDING  
UPLB, COLLEGE, LAGUNA

SEPTEMBER 29-OCTOBER 2, 2009 (TUESDAY-FRIDAY 8AM-6PM)

FOR MORE INFO: 09193744287 or 5362466/2468/2217





# Quantum Agriculture at Syensaya (Fun Science) at UPLB - July 2011









# Quantum Agriculture with **Pabinhi Pilipinas** at Karangalan 2004



Pabinhi is  
farmer-led  
scientist-  
assisted  
movement



# **Gerry Garingalao...** Guimaras- Farmer leader of Pabinhi Pilipinas... Nature Farm and Agnihotra





# PABINHI Bio- Dynamics and Agnihotra Training, WITH Department Brgy. Tabunan, Bago City in 2009.



King G,  
the  
youngest  
agnihotri



Attended by  
OPA –Neg.  
Occ.  
Personnel);  
participants  
attended =  
40



*Welcome!*  
GUEST'S, TRAINORS & PARTICIPANTS TO THE  
**BASIC TRAINING FOR TOUR GUIDES**  
BULABOG PUTI-AN NATURAL PARK, DINGLE ILOILO  
APRIL 16-19, 2012

**WELCOME**  
TOURIST ASSISTANCE CENTER  
Municipal Police Station  
Dingle, Iloilo

• WELCOME

BULABOG PUTI-AN





# Guimaras - Pabinhi in Action



With Gerry Garingalao and  
Hubon Himalusanon





# Gerry G and Poldo Guilaran... Pabinhi Pilipinas “sparring partners”





# Pabinhi Pilipinas and SRI or System of Rice Intensification





# Quantum Agriculture now being taught in UPLB ...

## *Science or PseudoScience?*

<http://www.quantum-agri-phils.com>





# **Agnihotra brought to Dept of Agriculture (DA) & Agriculture Training Institute (ATI) ... National and Regional 2011 for Organic Agriculture**





# Agnihotra at EarthDance Manila 2012





# Ome Bailey:

Sustainable agriculture  
Social enterprise projects  
Networking  
Alternative education





# Florinda Pablo:

*A Visionary and Intuitive Gardener  
in Los Banos-Bay area*



Mushroom  
Homeopathy  
Agnihotra

Sanjeevini: Tapal/information healing  
Intuitive Gardening

**BAIBAYIN**

Please see separate presentation about her initiative



# Jeoffrey delos Reyes: Agnihotra and Homa therapy...

## *Sunrise Agnihotra*

*Sa init ng araw,  
aking iniaalay ang lahat,*

*Ang alay na ito'y di karaniwan,  
Ito'y ganap na banal.*

*Suryaya Swaha,  
Suryaya Idam Na Mama*

*Prajapataye Swaha.  
Prajapataye Idam Na Mama*

## *Sunset Agnihotra*

*Sa sinag ng araw,  
Aking iniaalay ang lahat*

*Ang lahat ng ito'y di karaniwan  
Ito'y ganap na banal*

*Agnaye Swaha.  
Agnaye Idam Na Mama*

*Prajapataye Swaha.  
Prajapataye Idam Na Mama*





# Bonifacio Comandante

## *Baibayin in:*

- \*Tapal Pinoy
- \*Gardening
- \*Taklobo
- \*Ancient script and numerals
- \*etc.

*Sleeping fish out of the water technology*

### TAPAL PINOY

Inspired by the ancient Filipino healing modality, the technique applied to plants.



Crossing Disciplines for New Frontiers\*  
[www.baybayin360.org](http://www.baybayin360.org)











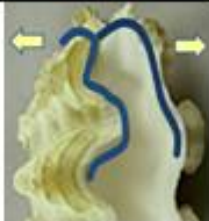
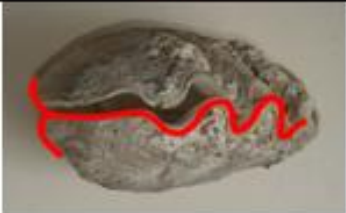







Bonifacio F. Comandante Jr. PhD  
UPAA Distinguished Alumni Award  
in Science & Technology 2011

### DUNONG PILIPINO



Experimental Kamote plant results vs Control crops:  
More yield, better tuber skin, superior taste/color & longer shelf life.



				
baba	a.a	<u>o.u</u>	wawa	<u>sasa</u>
				
kaka	dara	nana	gaga	nganga
				
e.i	tata	lala	mama	haha
		<p>Sulat Baybayin Halaw sa Taklobo</p> <p>© Comandante 2009 All Rights Reserved</p>		
papa	yaya			



## The Baybayin Syllabary

ⓐ ⓑ ⓓ ⓔ ⓖ ⓗ ⓙ ⓚ  
a ba ka d/ra e/i ga ha la ma  
vowel vowel

ⓓ ⓔ ⓖ ⓗ ⓙ ⓚ ⓛ ⓜ  
na nga o/u pa sa ta wa ya  
vowel

For this purpose they have letters which total only seventeen. Each letter is a syllable and with certain points placed to one or the other of a letter, or above or below, they compose words and write and say with these whatever they wish.

*Boxer Codex 1590, Translation: Quirino & Garcia 1958*



### STANDING STRONG

Baybayin360 is a corporate cultural responsibility of Getz Pharma (Phils.) Inc.  
Copyright © 2011 Baybayin360. All Rights Reserved

<http://baybayin360.org/>



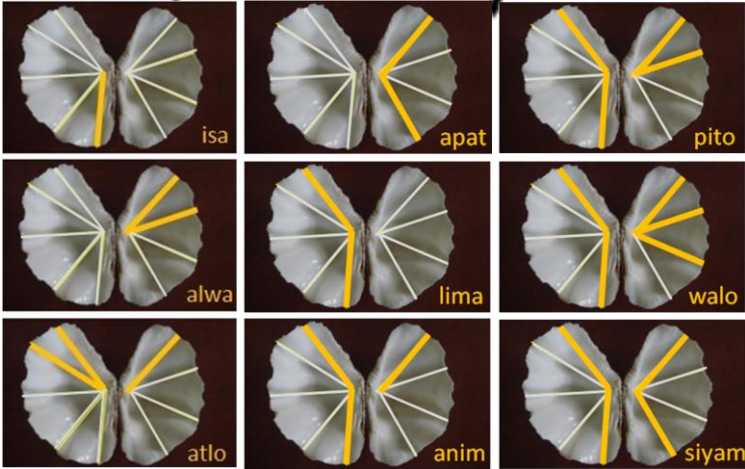
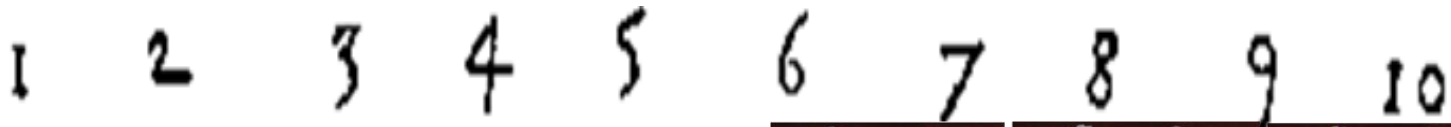
Baybayin  
Numerals  
(neolithic)









Possible  
Philippine  
Numerals  
1100s

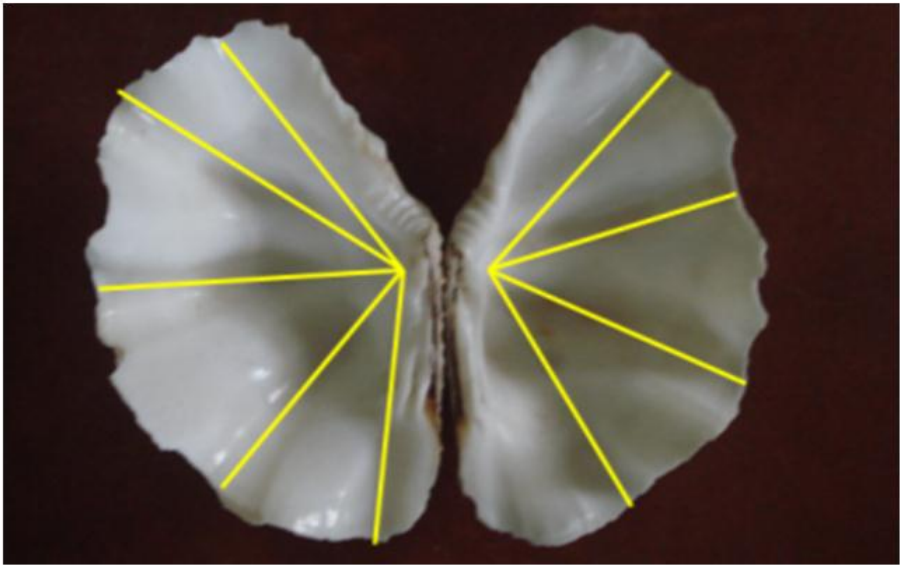


From De Arts  
Supputandi by  
Tonstall, 1522





Tolentino 1937		San Buena Ventura 1613	Comandante ©2009
isa		isa	I
dalawa		alwa	↘
tatlo		atlo	↙
apat		apat	<
lima		lima	>
anim		anim	Y
pito		pito	Y
walo		walo	Y
siyam		siyam	X
(zero)	n/a	n/a	♀ wala



Maaring  
Pinagkuhanan  
ng hugis wala







[HOME](#)
[BAYBAYIN SITES](#)
[BAYBAYIN STUDIES](#)
[BAYBAYIN GALLERY](#)

[Pangasinan Twin Event  
TUNA SASHIMI  
FESTIVAL &...](#)  
[Read more >](#)

[TED Talk  
Sleeping Fish and the Sleeping  
Filipino...](#)  
[Read more >](#)

[Laguna Big Event 2013  
Bagong Kasaysayan -  
Seminar...](#)  
[Read more >](#)

[REGISTER NOW FREE](#)  
 AND GAIN ACCESS TO OUR  
 EXCLUSIVE ONLINE CONTENT

## TED Talk

[Printer-friendly version](#)
[Send to friend](#)

### Sleeping Fish and the Sleeping Filipino Culture

Cebu, Philippines  
April 12th, 2013

boni comandante jr  
marine scientist  
anthropologist

#### Video Blogs

- Sayaw Baybayin  
Sun, 22 Apr 2012
- Baybayin Festival-  
Rizal  
Thu, 12 Jan 2012

1 of 4 >>

#### Featured Art

Craft/Art Contribution  
012

#### About this event

Our Theme: "Imagine YOU". We want YOU to imagine that YOU can do great things and make a difference in peoples' lives. Through inspiring stories that is worth spreading.

#### Confirmed Speaker

Bonifacio "Boni" Comandante Jr  
PhDs in Marine Biology and Anthropology. Developer of the sleeping fish and hibernation technology. This is a technology that allows transporting of live fishes for many hours without water.

**Sleeping fish in air, no water!**

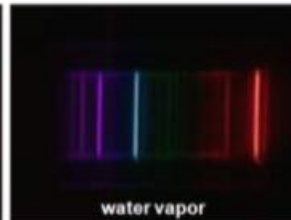
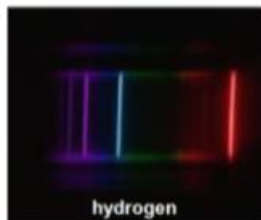
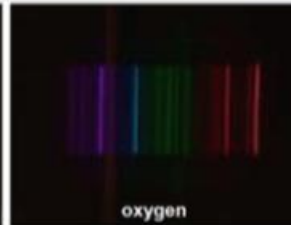


# Boni is discoverer, inventor.

Below: more candle light brightness using natural products; capturing or splitting light using simple instruments...



Constituent	Molecular fraction		
	Earth's surface	Universe	Human Body
Nitrogen	78,090,000 ppm (78.09 %)	950 ppm	3%
Oxygen	20,950,000 ppm (20.95 %)	10,700 ppm	65%
Argon	93,000 ppm (0.93 %)	trace	-
Carbon dioxide	320 ppm	trace	-
Neon	18 ppm	1,340 ppm	-
Helium	5.2 ppm	240,000 ppm	-
Methane	2.9 ppm	trace	-
Krypton	1.1 ppm	trace	-
Nitrous oxide	0.5 ppm	Trace	-
Hydrogen	0.5 ppm	739,000 ppm	10%
Ozone	0.01 ppm	trace	-
ppm = parts per million (elements always present in water, soil and other solids)			Carbon 18% (trace elements can be found)





# Ramon Yedra: searching for and spreading Filipino spirituality through Baibayin



## Baibayin ng Bai<sup>1</sup>

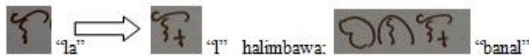
### Mga Titik



### Gabay sa Pagbasa:

Kapag walang marka ("diacritical mark") sa mga titik na katinig ("consonant"), ang basa ay katulad ng nasa itaas (may "a" tulad ng "ba", "ka", "da"). Nepapalitan ang pagbasa sa mga titik na katinig kapag mayroong marka sa itaas o ibaba ng mga titik na katinig.

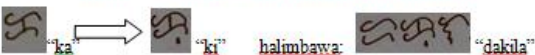
1. Kapag may "krus" sa ibaba ng titik na katinig, nawawala ang "a":



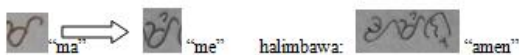
Maliban sa "nga" na may markang "bawas" para mawala ang "a":



2. Kapag may "tuldok" sa ibaba ng titik, nagiging "i" ang patinig.

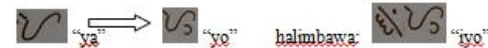


3. Kapag may "kuwit" sa itaas ng titik, nagiging "e" ang patinig.

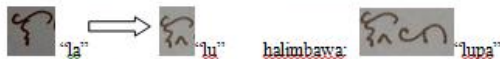


<sup>1</sup> Ang gabay na ito ay para sa pagbasa ng sulat Baibayin ng Bai. Enero 10, 2013. Saysay Bagin.

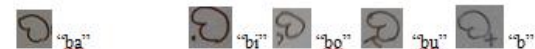
4. Kapag may "kuwit" sa ibaba ng titik, nagiging "o" ang patinig.



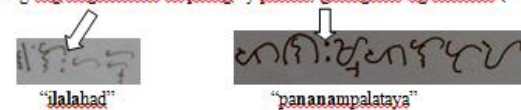
5. Kapag may "tudlit" sa ibaba ng titik, nagiging "u" ang patinig.



6. Ang mga markang krus, tuldok, kuwit at tudlit ay sa kanang ibaba ng titik katinig nakalagay. maliban lamang sa titik na ang marka ay nakalagay sa kaliwang ibaba, pero ang 'krus' ay sa kanang ibaba rin katulad ng iba.



7. Kung ang magkasunod na pantig ay pareho, gumagamit ng tutuldok ("colon") :

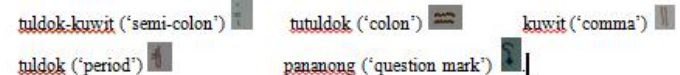


8. Mga halimbawa ng salitang may titik na patinig ("vowel") :



Bihirang-bihirang gamitin ang titik "e". Tanging sa (pangalan ni Kristo Hesus sa wikang Ebreo), ang "e" ay nakalagay sa itaas ng titik katinig. Sa ibang salita, ang titik "e" ay kapantay ng titik na katinig. halimbawa ay "babae".

9. Ang mga marka ng pagtatapos ng parirala o pangungusap:





# Kisig and Angel Lopez: Vegetarian food service; Community meetings in Truth seeking

<http://www.facebook.com/kisig>





# Emman Bernardo:

## Agnihotra in Tissue Culture



### GROWTH PROMOTION OF AGNIHOTRA ASH IN CALLUS CULTURES OF CARROT (*Daucus carota* L.)

Emmanuel L. Bernardo and Evalour T. Aspuria

University Research Associate and Associate Professor, respectively, Crop Science Cluster, College of Agriculture, University of the Philippines, College, Los Baños, Laguna 4031 Philippines

#### Abstract

Increasing prices of mineral salts and growth regulators routinely used in plant tissue culture makes the search for alternative sources of nutrition and growth promoters of plants *in vitro* unavoidable. Agnihotra is a burning practice done at exact sunrise and sunset using a small copper pyramidal, conical cone dung, clovered butter and rice, accompanied by a set of specific mantras. The resultant ash was added at a rate of 0.01, 0.10, 0.50 and 1.0 g/L into MS-based carrot callus induction medium (CIM) containing 1% sucrose, 1.0 ppm 2, 4-D, 15% coconut water and solidified with 6% Phytagel® agar. Carrot callus cultures in the first (S<sub>1</sub>) and second (S<sub>2</sub>) subcultures were explanted onto Agnihotra ash-enriched CIM and was kept at 26 ± 1°C under dim light conditions for 6 weeks. All Agnihotra ash concentrations gave substantial increases in callus fresh weight (FW) in both S<sub>1</sub> and S<sub>2</sub> callus generations. Greatest increase in callus FW ranging between 24 up to 72% relative to control was observed in S<sub>2</sub> subcultures while a 9 to 50% increase was noted for S<sub>1</sub> subcultures. The treatment ranking from highest to lowest in terms of final FW increment was 0.01, 1.0, 0.50, 0.10 g/L and control for both callus generations. Agnihotra ash level at 0.01 g/L elicited the greatest increase in FW in relation to the control in both the S<sub>1</sub> (72%) and S<sub>2</sub> (50%) generations. To our knowledge, we were the first to explore Agnihotra ash as supplement to plant tissue culture medium. Possibilities of using Agnihotra ash in different media and on various crops have therefore been offered through this pioneering work. Intensive research must be dedicated to expound on the influences, mechanisms and the unidentified "growth factor/s" attributed to the results obtained in this study.

#### Introduction

The undated increase in price of basic chemicals used as source of mineral micronutrients in various plant tissue culture media can often diminish the economic advantage of plant propagation through tissue culture. Likewise, prices of micronutrients and plant growth regulators have also been variable and generally increasing. It is thus seemingly logical to search for alternative components which can at least supplement these chemical compounds as source of plant nutrition *in vitro*. This should facilitate making plant propagation through tissue culture less cost.

Agnihotra (Fig. 2), which is part of Home Organic Farming, is an ancient Vedic practice that involves burning specific organic substances particularly dried cow dung 'cakes', clover (dried butter from organic cow's milk), unbroken (preferably unpolished and organic) rice grains inside a small pyramid-shaped copper pot of prescribed dimension. It is accompanied by uttering a specific set of sounds (mantra) at exact sunrise and sunset. The resultant ash from the practice is extremely inexpensive and simple to generate and is used to "enrich" compost, plants, animals, etc. Controlled experiments utilizing Agnihotra ash are available but they remain scanty and inconclusive.

This preliminary study evaluated Agnihotra ash as an alternative tissue culture component being a potential source of nutrition and enhanced growth of plants *in vitro*.

#### Materials and Methods



Figure 1. Flowchart of experimental procedure.

#### Results and Discussion

All Agnihotra ash concentrations gave substantial increases in carrot callus FW in both S<sub>1</sub> and S<sub>2</sub> generations (Fig. 3), suggesting a stimulatory effect on carrot callus cultures especially at 0.01 g/L similar to other crops like mungbean, rice and mungbean seeds. Increase in callus fresh weight ranged from 9 to 50% for S<sub>1</sub> callus, 24 to 72% increase for S<sub>2</sub> callus. Treatment ranking from highest to lowest in terms of final callus fresh weight was 0.01, 1.0, 0.50, 0.10 g/L, and control.

The difference among treatments was visually reflected on the size of the callus produced (Fig. 4). Agnihotra ash contains 4 micronutrients, 5 macronutrients, while 13 other more elements have not established functions (Table 1).

Supplementation of Agnihotra ash to the MS medium have induced the growth of carrot callus however concentration higher than 0.01 g/L did not seem to be significantly better than control. High concentrations may have some antagonistic effect on the base components of the MS medium or to 2, 4-D.

#### Results and Discussion

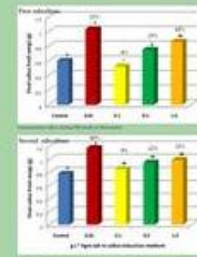


Figure 3. Final fresh weight of first (S<sub>1</sub>) and second (S<sub>2</sub>) subcultures carrot callus inoculated onto callus induction medium enriched with Agnihotra ash. Figures on top of the bars represent percentage increase of treatment relative to control.



Figure 4. Representative pictures of carrot callus inoculated onto Agnihotra ash-enriched medium at varying levels.

#### Conclusion and Future Prospect

Agnihotra ash had a stimulatory effect on the growth of *D. carota* callus cultures although the exact mechanism that promoted growth is still not apparent. Based on the preliminary study of this experiment, Agnihotra ash is a potential supplement to plant tissue culture medium to enhance the growth of *D. carota* callus. The application of Agnihotra ash in other *in vitro* growth studies was offered to be further explored.

#### References

- 1) SODA, P. B. PRASAD AND V. V. V. 2000. Organic farming - a Traditional technology. Indian Journal of Traditional Knowledge 9(1):10-142.
- 2) SODA, P. B. PRASAD AND V. V. V. 2000. Impact of Agnihotra on sustainable agriculture technology. J. Agric. Res. 100(24):240.
- 3) SODA, P. B. PRASAD AND V. V. V. 2000. Effect of Agnihotra on the germination of rice seed. Indian Journal of Traditional Knowledge 9(1):25-29.
- 4) SODA, P. B. PRASAD AND V. V. V. 2000. Effect of Agnihotra on the germination of rice seed. Indian Journal of Traditional Knowledge 9(1):25-29.

#### Acknowledgement

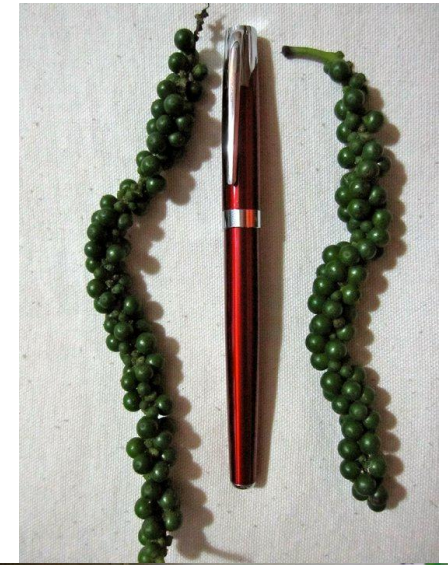
The authors are grateful to the Department of Crop Science, College of Agriculture, University of the Philippines, Los Baños, Laguna for providing the Agnihotra ash used in this study and for providing the facilities and equipment for the study.



GROWTH PROMOTION OF AGNIHOTRA ASH IN CALLUS CULT... 1.2MB



# Ray and Vernie Lucero: Folia Tropica



<http://www.facebook.com/pages/Los-Banos-Folia-Tropica/170756026297054>



# Quantum Compost

**FOLIA TROPICA**

organic products that means GREEN

Compost is Mother Nature's clever way of recycling. What takes place inside a compost pile is amazing. Microorganisms decompose grass clippings, leaves, palm fronds and dried animal manure, transforming them into humus or compost. Compost fertilizes and conditions soil, makes plants grow healthier and resistant to pest and diseases.

*we color code package the meaning of green products...*



**FINE KOMPOST**  
Bloom Booster Soil Conditioner  
for all kinds of plants



**KOMPOST EXTRACT FOR ORCHIDS**  
organic nutrient for orchids



**Kompost-based MARCOTTING MIX**  
for woody and semi-woody ornamental plants, trees & vines



**COARSE KOMPOST**  
Bloom Booster Soil Conditioner  
for plants that requires good drainage



**Kompost-based TRANSPLANTING MIX**  
for newly rooted seedlings cuttings & marcotted plants



**Kompost-based SEED STARTING MIX**  
Nutrient-rich medium for germinating seeds



**KOMPOST TEA FOR PLANTS**  
Quick - Acting Organic Plant Food



**Kompost-based POTTING SOIL MIX**  
organic mix for ornamentals, vegetables, trees, herbs & indoor plants



**Kompost-based LAWN TOPDRESSING**  
organic lawn care for all lawn grasses

**FOLIA TROPICA**

*Green shopping means looking at the labels and choosing to buy things that are eco-friendly.*

tel: 0940 336 3263  
0917 354 6863

Distributed by ACE HARDWARE and HARDWARE WORKSHOP at SM MALLS

**FOLIA TROPICA**

Leaf Bone  
Pampasigla ng Dabon  
ng Dabon

## LEAF MOLD

Composted Tree Leaves

100% organic mulch and cover for all kinds of plants  
Without Animal Manure

Net Wt: 1 kg

**TENTS:** Composted leaves of acacia or rain tree, narra, kahawe, ipil-igil, golden shower, mangrove, molle, balaka (dry forest and selected fruit trees).

**FOLIA TROPICA**

With tree bark of wood bark

**NET CONTENTS: 8 Shave**  
(Net Wt: 1 kg)

**FOLIA TROPICA**

With tree bark of wood bark

**NET CONTENTS: 8 Shave**  
(Net Wt: 1 kg)

**FOLIA TROPICA**

Plant to save for your trees the Organic Way

**KOMPOST-BASED TREE PLANTING SOIL MIX**

For all kinds of fruit trees, ornamental and house trees

Net Wt: 1 kg (good for 1 to 10 plants)

**FOLIA TROPICA**

Be Lucky! Try a simple do-it-yourself technique for plants to survive and get established easily.

**KOMPOST-BASED TRANSPLANTING MIX**

For all newly rooted seedlings, cuttings and marcotted plants.

Net Wt: 1 kg (good for 1 to 10 plants)

**FOLIA TROPICA**

**KOMPOST-BASED SEED STARTING MIX**

For all newly rooted seedlings, cuttings and marcotted plants.

Net Wt: 1 kg (good for 1 to 10 plants)

**FOLIA TROPICA**

**KOMPOST-BASED POTTING SOIL MIX**

For all kinds of fruit trees, ornamental and house trees

Net Wt: 1 kg (good for 1 to 10 plants)

**FOLIA TROPICA**

Discover the joy of marcotting your plants successfully! An easy do-it-yourself product with materials and sample marcot

**KOMPOST-BASED MARCOTTING MIX**

For woody and semi-woody ornamental plants, trees and vines

Net Wt: 1 kg (good for 1 to 10 plants)

**FOLIA TROPICA**

**Kompost-based LAWN TOPDRESSING**

For all kinds of lawn grasses (bent grass, kikyo grass, etc.)

Net Wt: 1 kg (good for 1 to 10 plants)

**FOLIA TROPICA**

**KOMPOST TEA FOR PLANTS**

Quick-Acting C-Mineral at Mobility

Net Wt: 350 gms

**FOLIA TROPICA**

**KOMPOST EXTRACT FOR ORCHIDS**

For all kinds of orchids

Net Wt: 1 kg

**FOLIA TROPICA**

**KOMPOST EXTRACT FOR ORCHIDS**

For all kinds of orchids

Net Wt: 1 kg

**FOLIA TROPICA**

**Bloom Booster Soil Conditioner**

For all kinds of plants

Net Wt: 1 kg

**FOLIA TROPICA**

**COARSE KOMPOST**

For all kinds of plants

Net Wt: 1 kg

**FOLIA TROPICA**

**KOMPOST ACTIVATOR**

Contains billions of microorganisms

Net Wt: 1 kg

**FOLIA TROPICA**

**COARSE KOMPOST**

For all kinds of plants

Net Wt: 1 kg

**FOLIA TROPICA**

**COARSE KOMPOST**

For all kinds of plants

Net Wt: 1 kg

**FOLIA TROPICA**

**COARSE KOMPOST**

For all kinds of plants

Net Wt: 1 kg




# FOLIA TROPICA

THE ORGANIC ALTERNATIVE

MAKERS OF HIGH QUALITY KOMPOST AND KOMPOST-BASED PRODUCTS


## KOMPOST-BASED VEGETABLE GARDENING TRIO



For Students, Teachers, and Parents  
Elementary and High School Levels  
For use in Schools and Home Study Lessons in Science

**CONTENTS:**  
► Folia Tropica Fine Kompost ► Seed Germination  
► Potting Mix For Growing Vegetables in Containers

## PLANT PROPAGATION PACK



### KOMPOST-BASED

For Grade 4, Grade 5 and Highschool Students, Teachers and Parents  
For use in Schools & Home Study Lessons in Science

**CONTENTS:**  
► Seed Germination Mix ► Air Layering (Marcot) Mix  
► Aerial Propagation Mix ► Potting Mix With Premium Kompost

## SACK COMPOSTER FOR HOMES & SCHOOLS


**CONTENTS:**  
1 used sack, Folia Tropica Activator  
egg shells, coco coir dust.

Folia Tropica Kompost Activator contains billions of microorganisms to hasten the decay of kitchen & garden wastes.

### Our Latest Products

Our contact details:  
landline: (049) 536-3253  
mobile 09173546882 / 09178513301  
e-mail: foliatropica@yahoo.com.ph  
foliatropica@gmail.com

New products brought to schools



# CARE TIPS FOR DOÑA EVA

**Mussaenda Doña Eva** is a hybrid ornamental shrub developed by Filipino scientists at the Institute of Plant Breeding, University of the Philippines at Los Baños way back in 1962. Named after the wife of former President Diosdado Macapagal, Doña Eva is known as the most beautiful Mussaenda. However, it is also the most difficult to propagate. **Folia Tropica** started propagating them in 2009 without the use of synthetic fertilizers and insecticides. Instead they are grown organically using **Folia Tropica Kompost-based Products** exclusively available at **Ace Hardware** in **SM Malls** nationwide.

### Planting

1. Choose an area that receives full sunlight. Dig a hole bigger than the root ball. Top of the root ball should be 2 inches below the soil level. Reserve the upper 1/3 soil layer and add compost (20%) to make planting mix.
2. Using a knife or a pair of scissors, cut the sides of the plastic container vertically. Be careful not to break the root ball when placing it on the hole.
3. Place planting mix on the bottom (1 inch thick), then on the sides. Press the mix firmly so that the root ball is in good contact with the mix.
4. Final leveling should produce a saucer-like shape. Fill the saucer shaped soil with water. Let it penetrate the soil.
5. Using rubber strips, tie Doña Eva to three wooden or bamboo stakes until it is fully established.

### Pest Control

1. Control mealybugs and ants (mutually existing) with home-made insecticide.
2. In one liter of water, mix crude extract of red pepper (20 pcs of ripe red pepper) and powdered detergent (1/2 tbsp). Spray on insect pests until their bodies are fully covered with the solution. Targeted insects die in less than one minute. Always rinse sprayed areas of plants with plain water 5 minutes after the application of this home-made insecticide.

### Improvement of Drainage

1. Repot plants in containers during October to give plants richer medium. Use **Folia Tropica Kompost-based Potting Mix**.
2. When repotting, remove earthworms from your old potting mix.

### Watering

1. Water your plants 3-4 times a week during summer. Mussaendas need a lot of water during summer to maintain their flowers.

### Dormancy Period

1. Doña Evas become dormant (they lose leaves) from February to April, but they are not dead. Just continue watering them, and they will restore their leaves towards the end of April. Doña Evas bloom profusely during the onset of the rainy season starting May.

### Pruning

1. Prune all shoots growing below the colored wire. These are shoots of the rootstock and they will compete with the scion (Doña Eva branch) if allowed to grow.
2. Prune all dead twigs and fruits (green ones below the flowers) to induce production of new flowers.
3. Prune extra long branches to prevent splitting and to maintain good canopy shape.

### Fertilization

1. Top dress with a handful of **Folia Tropica Fine Kompost** once a month. **Fine Kompost** provides 14 elements needed by plants. It also contains trillions of microorganisms that are able to store these elements.

Contact us

**FOLIA TROPICA**

Tel. No: (049) 536-3253 | Mobile No: (0917)-354-6882 or (0917)-851-3301  
Email: foliatropica@yahoo.com.ph

Success in Dona Eva propagation



# Carolyn Dedolph: Leads the **No Impact Week** at ADB



<http://www.facebook.com/ADBNoImpact>

## ADB No Impact Experiment.





# no impact project

ABOUT US | FOR EDUCATORS | CHANGE YOURSELF

### CHANGE YOURSELF

TELL US HOW YOU ARE LOWERING YOUR IMPACT!

COLIN'S HOW-TO'S


### TIP CATEGORIES

- MORE MONEY (185)
- CLEARER CONSCIENCE (151)
- MORE FUN (89)
- BETTER HEALTH (126)
- MORE TIME (62)

### KEEP IN TOUCH WITH US

Regular updates from No Impact Project





 **TRY THE EXPERIMENT >**



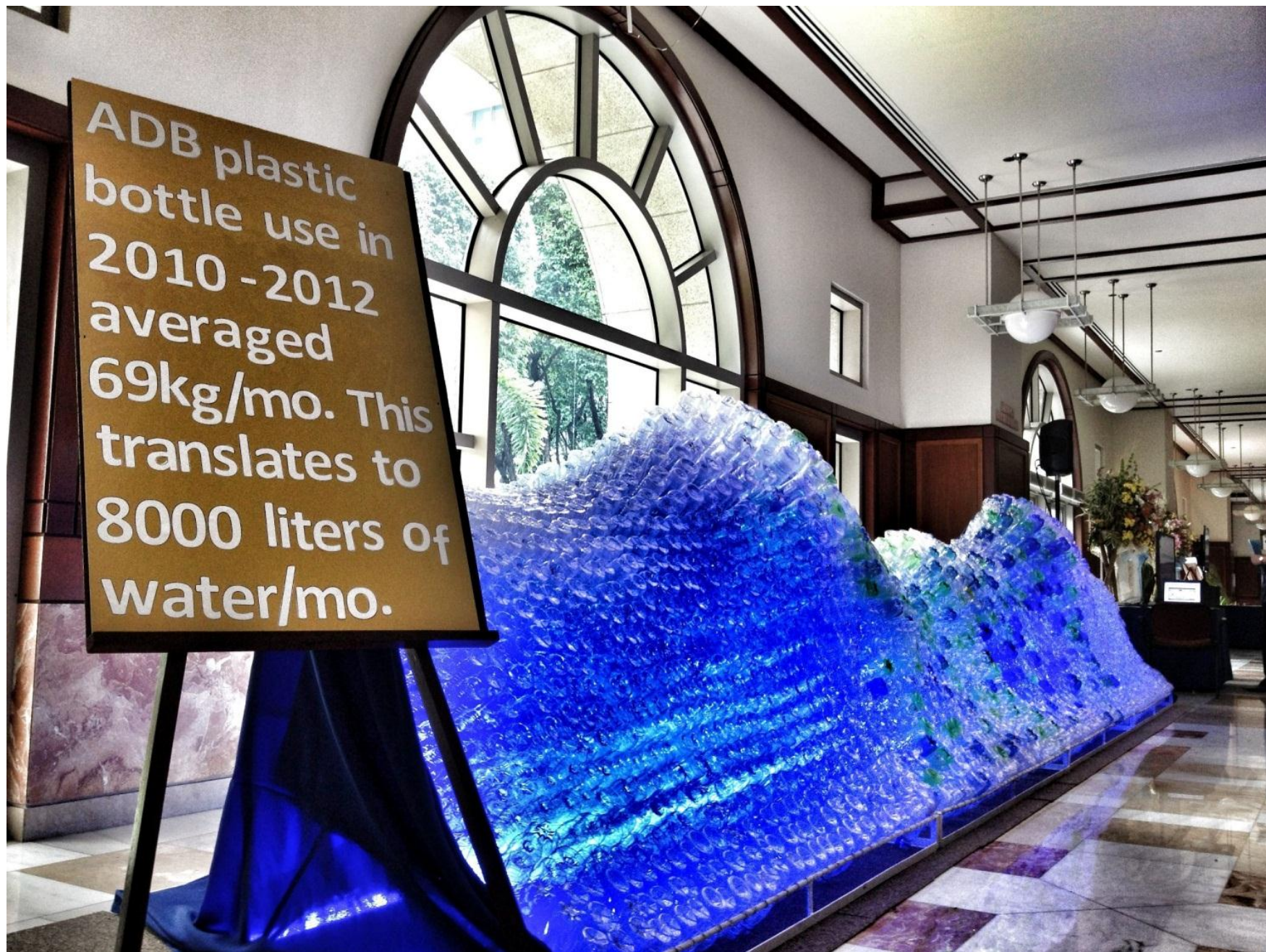
# Lifestyle change at ADB

- Vegetarian, organic, simple food, ecological style at the Cafeteria
- Train vs car
- Walk vs ride
- Stairs vs elevator
- No plastics
- ETC.





ADB plastic  
bottle use in  
2010-2012  
averaged  
69kg/mo. This  
translates to  
8000 liters of  
water/mo.





# Change yourself

- Fragrance free
- Greener pets
- Laundry chemicals
- Natural mattress
- Green Newspaper
- ETC.



no impact project

ALREADY LOWERING YOUR IMPACT?  
[We want to hear about it.](#)

BOOK

MOVIE

BLOG

[ABOUT US](#) | [FOR EDUCATORS](#) | [CHANGE YOURSELF](#) | [CHANGE THE WORLD](#) | [THE NO IMPACT EXPERIMENT](#) | [NEWS & EVENTS](#) | [DONATE](#)

## THE NO IMPACT EXPERIMENT

### HOW IT WORKS

#### FAQS

#### INDIVIDUAL REGISTRATION

#### UNIVERSITY NO IMPACT WEEK REGISTRATION

#### ASIAN DEVELOPMENT BANK NO IMPACT WEEK

#### EXPERIMENTO SIN IMPACTO- EN ESPAÑOL!

#### NO IMPACT WEEK FOR COMMUNITIES

#### NO IMPACT WEEK FOR MIDDLE AND HIGH SCHOOL

#### NO IMPACT WEEK FOR UNIVERSITIES

#### IPHONE APPS FOR YOUR EXPERIMENT

## KEEP IN TOUCH WITH US

Regular updates from No Impact Project



## University No Impact Week Registration



We're partnering with schools all over the country to bring the No Impact Week to thousands of college students this semester. **Want to host a No Impact Week at your university? Send an email to [Lilly@noimpactproject.org](mailto:Lilly@noimpactproject.org) to find out how you can get involved!**

See what a difference living lightly on the planet can have on your quality of life. Please **REGISTER BELOW** and make sure to fill in the email address where you'd like to have the No Impact Week Guide, pre-week survey, and local addendum sent: don't worry, we won't spam you or sell your address. \*If you have Gmail, please check your spam folder if you do not receive the autoreply\*

**Please note:** The No Impact Week concept and materials are property of the No Impact Project. Although many of the No Impact Week resources are online for the benefit of individuals who want to undertake No Impact Weeks on their own, it is not our intention that institutions use the No Impact Week materials without the involvement and guidance of the No Impact Project. Contact [Lilly@noimpactproject.org](mailto:Lilly@noimpactproject.org) to inquire about the use of the No Impact Week and materials.

University No Impact Week Registration

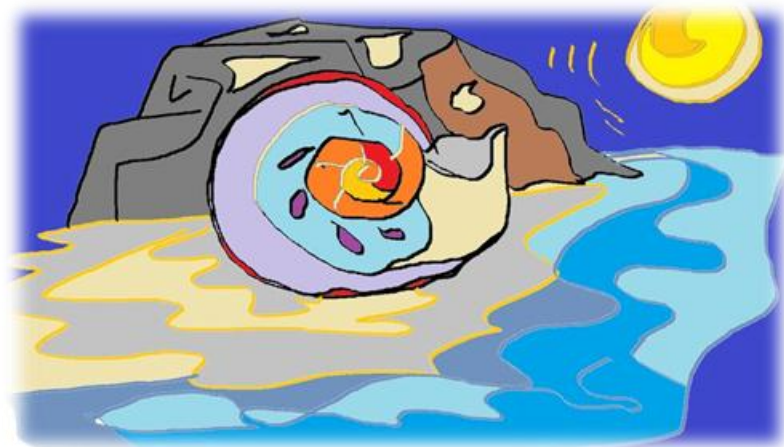
07156\_28502812\_32942747\_840620611\_o.jpg



# Ana Bibal:

## *Indigenous Peoples' Culture in...*

- Environment Care and Management
- Community and Cooperation in Living & Governance



**A Light for the Nation and the World**



Mga Kaugalian ng Pangangalaga sa  
Kalikasan, Pampamayang Pagkakaisa at  
Bayanihan ng mga Katutubong  
Mamamayan : Isang Liwanag na Tanglaw  
para sa Kasalukuyan at Kinabukasan

Customary Traditions of Natural Resources  
Management and Community Cooperation:  
A Ray of Hope for Today and Tomorrow

A contribution by Ana Christina M. Bibal



Intimate nature-culture interactions define traditional occupations denoted in the dynamics of indigenous way of life. From them we can learn much in the principle of “communion” with the self, the community, the Earth and the cosmos.

Customary traditions are the vital embodiment of indigenous worldviews and wisdom that guides traditional governance mechanisms to ensure social unity; political justice; equity of access to resources -- these served as the evolving pillars of cultural resilience, social progress and most importantly spiritual harmony





# **TAYOK**

TAYOK means “to partake”

It is a virtue of sharing among the Iraya Mangyans of Mindoro. Hunt and edibles gathered from the forest are distributed to the village ...making sure that every household has a share ...it is ensure that a portion is delivered even to the farthest house in the next mountains





## ***“HONUSAN”***

Is a form of community cooperation done in rotation among household *kaingins* among the Mangyans of Mindoro during planting season. This mode of production cooperation is still visible in many parts of the country. A ritual is done to bless the seeds called *“paminhi”*.

The slit bamboos use in digging holes for planting rice seeds produce an echoing sound (*“wang-wang”*) that resounds as an invitation for others to join and help. A simple lunch is then offered for everyone.

Only secondary growth or grasslands near forest are open for agricultural use or *“kalaaanan mura”* and fallow period is observed for 5-7 years. Breeding grounds are not disturbed.





## Some Community Cooperation customs among KALANGUYA / IKALAHAN

- ***Man-ili*** – mutual aid system, sense of responsibility for others
- ***Ubbu*** - *farming labor cooperation by rotation*
- ***Danggah*** – *entails helping members of communities to do tasks like house building*

Source: *Caring For Our Source and sustenance* by Florence Daguitan, Tebtebba Foundation 2010





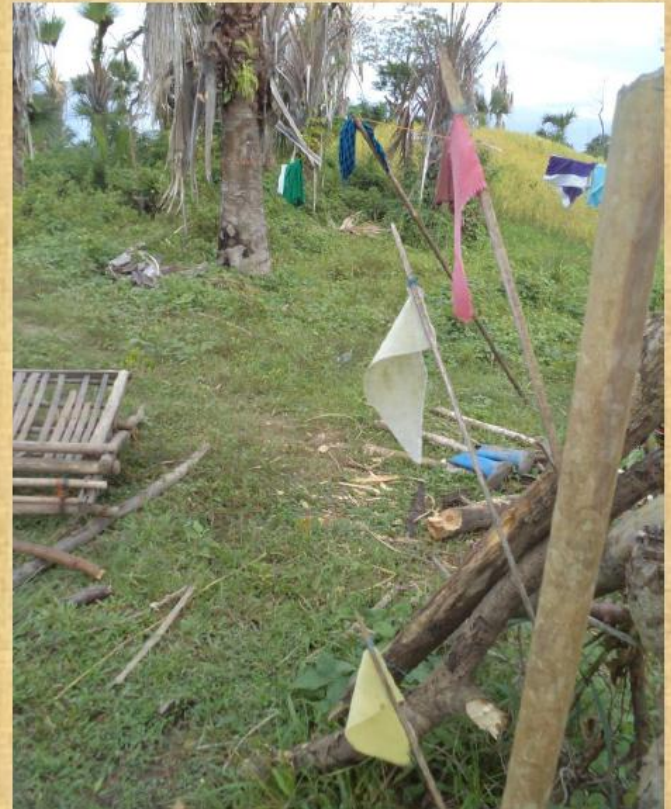
## *And among the PELAWAN tribes*

*Uyugan* – community cooperation during planting and harvesting season

*Rangsud* – is a form of barter among various communities in the coastal and uplands and as well as building stronger ties and friendship among clans

*Ongsud* or rituals done to *pasuwed et kalikasan* or to ask permission from nature as an affirmation to the spiritual entities in agricultural activities, gathering healing herbs and before building structures or entering forest areas

The flags indicate the number of household that have conducted the ritual and shared the first rice harvest







# Jose Reano

Jose de Castro Reano

**Inventor, Entrepreneur**

**His community farm in Atisan, San Pablo City is a showcase on how the preservation of biodiversity goes hand in hand with livelihood and rural empowerment.**

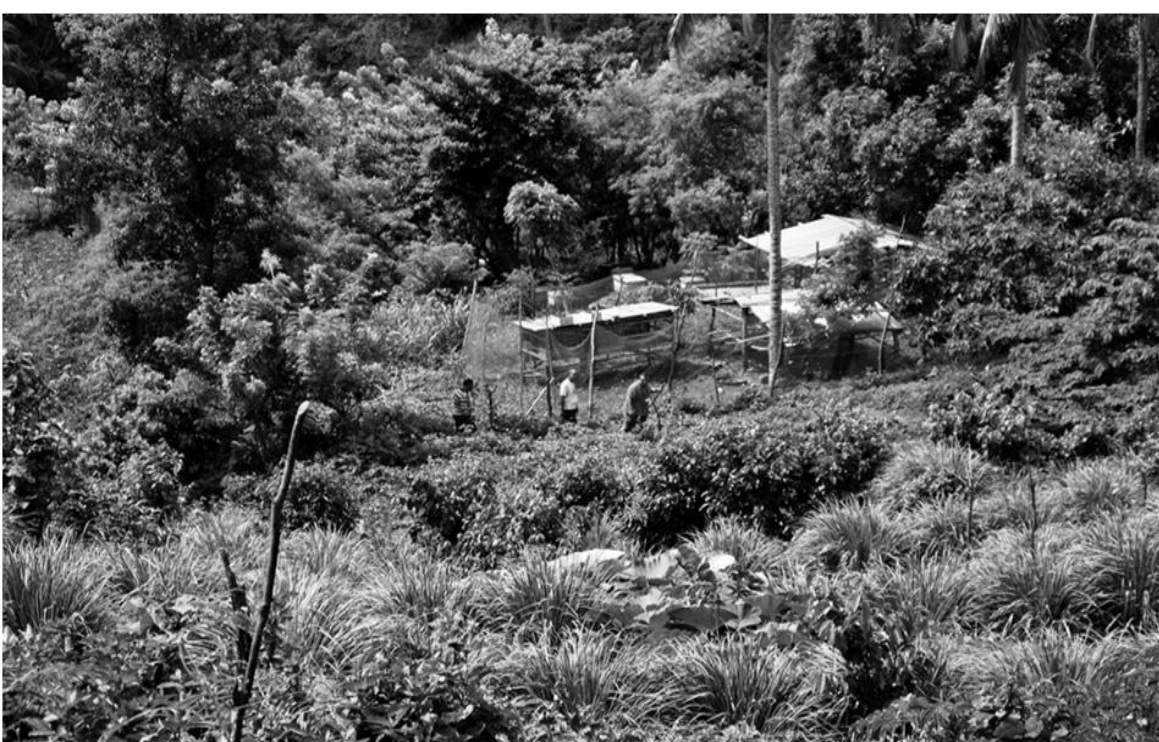
<http://malaya.com.ph/mar07/agri1.html>

<http://www.ipsnews.net/2012/06/corporations-see-green-in-biodiversity/>

<http://beta.searca.org/searca/index.php/knowledge-management/seminar-series/430--agricultural-entrepreneurship-a-pathway-to-progress>



# Community Livelihood Model



**Barangay Atisan, San Pablo City**

the village of Atisan is at the Malarayat mountain looms over rolling hills straddling the borders of Lipa on the Batangas side, Tiaong in Quezon and Laguna's San Pablo. The village is 500 meters above sea level, about 12 kilometers east of the city famed for its seven lakes. This is slash-and-burn country, where poor squatter families cut the trees for charcoal, firewood and lumber, scrounging for whatever they can survive on scant harvests of ube, gabi, luya, the occasional bananas and sickly-thin coconut trees.



# Rationale of his Program

- To shift the paradigm of Slash & Burn Farmers
- To educate the importance of cover crop
- To plant indigenous crops with economic & environmental value
- To control & manage frugivore birds & other animals
- To renew the people's interest & attitude towards tree planting
- To design minimal management of indigenous trees & plants
- To practice multiple cropping for pest & disease management
- To achieve an effective water conservation program



Export Quality ST Ambrose wine with Baybayin power

## FEATURES

Baybayin labels

Bignay wine

Bignay tea

Bignay jam

Bignay vinegar

Banana wine

Fruit breads  
(fermented,  
from wine)

Guabano wine

Civet cat coffee

Quantum coffee

Honey

Etc, etc.





# Ted Mendoza:

Maverick professor, scientist and farmer...  
where does he get his power?

Ted with Dr.jeong WITH HIS KOREAN STUDENTS & Dr.norvie





# Ted's Eco farm and garden





**Others who hailed from or are now living in Mt Makiling... they are doing strategic, highly creative, or unique work:**

**Lily Presbitero-** Quantum Organizational Development

**Alleli Domingo-** Teaching Math through Dance and Art

**Tony Mercado-** Ecological corn breeding

**Kutitap/Oryspa-** Rice in health and beauty products

**Angge Dayao-** Harmonya (string ensemble) composed of random individuals in campus who play musical instruments but are not part of an organized music group.

**Dennis Gupa-** Alternative concepts in theater

***And many more...***

**Please let me know of others who are shining a bright light from within and without...THANK YOU.**

**Pam**