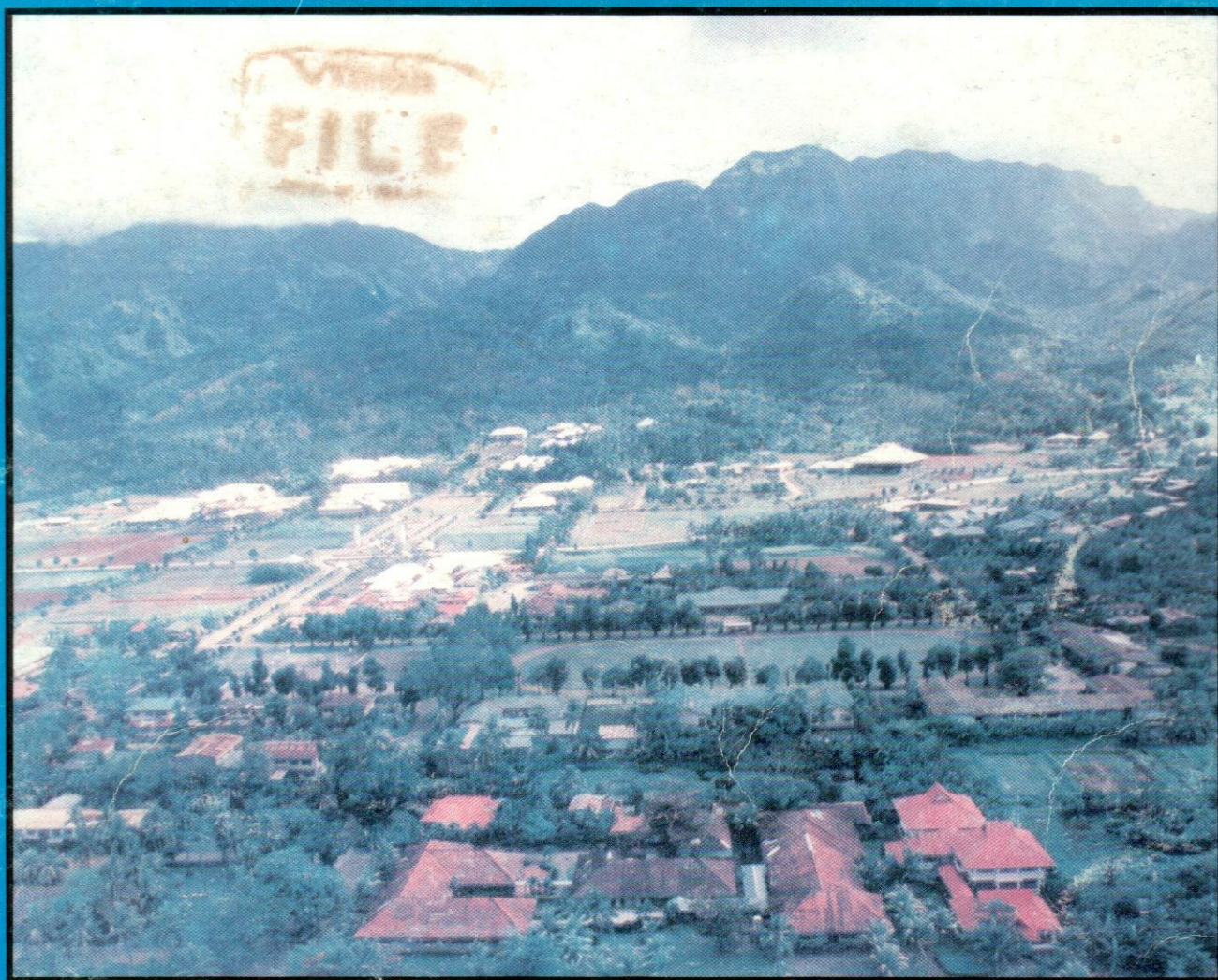


"Moving Towards Excellence  
in Instruction, Research and  
Extension for Agricultural  
and Rural Development"



# **1992 ANNUAL REPORT**

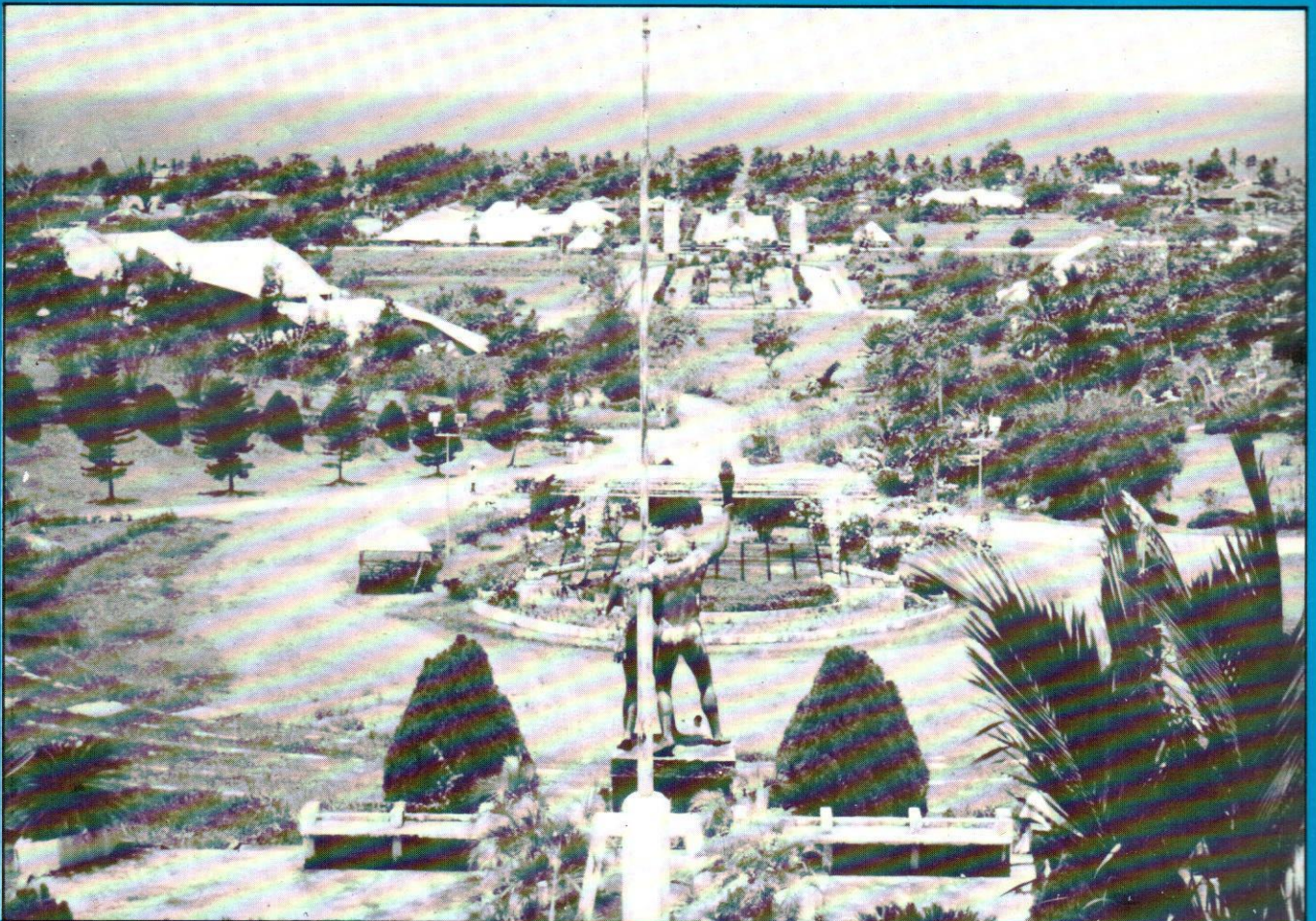


**Visayas State College of Agriculture**  
Baybay, Leyte 6521-A Philippines



*ViSCA's Mission:*

*"Enhancement of the general well-being of the rural populace, especially the disadvantaged sectors of the Visayas, through effective instruction, research and extension in agriculture and rural development."*





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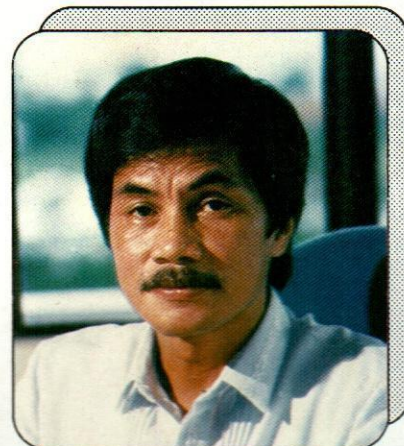
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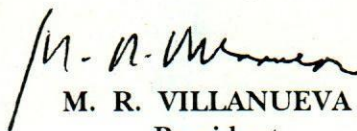
## FOREWORD

The 1992 ViSCA Annual Report reflects the highlights of the programs and accomplishments in instruction, research and extension. Guided by its mission, ViSCA continues to make significant contributions to the national development through manpower training at the undergraduate and graduate levels and technology innovations through its Research and Development (R & D) program. ViSCA's graduates have become recognized and competitive in the job market.



ViSCA's R & D program continues to focus on sustainable and environmentally sound strategies with strong bias towards the disadvantaged farmers in the countryside. The ViSCA-based Philippine Root Crop Research and Training Center remains at the frontline. Its root crop varieties and other technology innovations have found acceptance among small farmers throughout the country including those in the lahar-stricken areas of Central Luzon. Equally gaining recognition are ViSCA's projects on abaca, coconut, corn, farming systems, plant protection, ecology and extension education.

As a national research center, ViSCA has demonstrated its capability to undertake a program of national relevance, even under severe budgetary restriction. The college would like to give thanks to the generous support of local and international donors and collaborating partners such as PCARRD, PCAMRD, IRRI, IDRC, GTZ, IFS and other agencies that have expressed their trust and confidence in the fulfillment and success of ViSCA's mission.

  
M. R. VILLANUEVA  
President



# HIGHLIGHTS

## New Courses Offered

- \* M.S. in Agricultural Economics
- \* M.S. in Language Teaching

## Board Exam Passers

### \* Forestry Licensure:

1. Allen J. Cebuano
2. Alicia C. Diaz
3. Elmer B. Labaclado
4. Anatolio N. Polinar

### \* Teacher's Board:

Forty-five graduates of the Bachelor of Science in Agricultural Education passed the 1991 Teacher's Board Exam and ranked second in Region 8.

### \* Agricultural Engineering:

A 100% passing mark was achieved by the Department of Agricultural Engineering and Applied Mathematics (DAEAM) during the 1992 Agricultural Engineers' Board Exam with four students as toppers:

- |                        |             |
|------------------------|-------------|
| 1. Neil I. Luna        | - 3rd Place |
| 2. Renato N. Payod     | - 6th Place |
| 3. Ronaldo A. Cayomo   | - 8th Place |
| 4. Jose Wayne C. Lawas | - 9th Place |

## Enrolment Profile

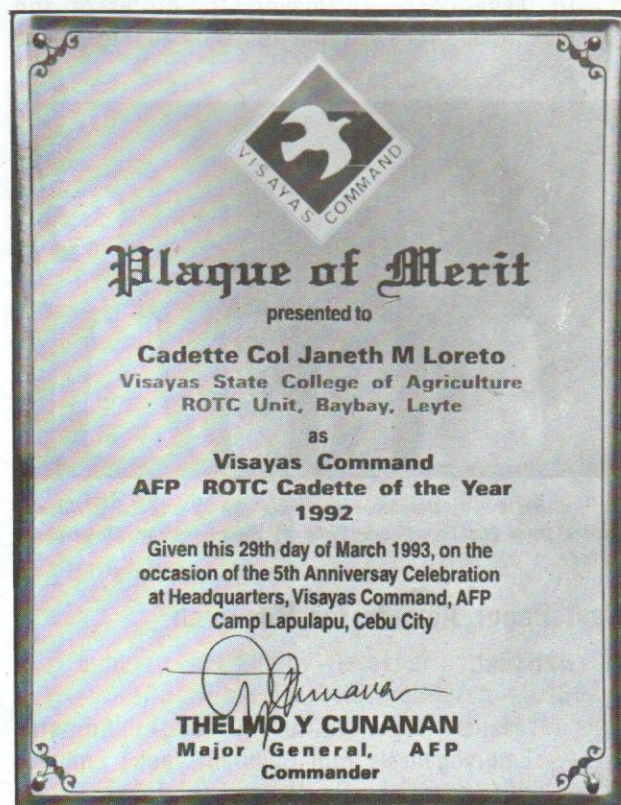
- \* Enrolment figures for SY 1992-1993 reflected a 21.4% increase in ViSCA's graduate program, 1% increase in the undergraduate degree program and 1.4% increase in the non-degree program. High school enrolment decreased by 12.4% as a result of ViSCA's policy to limit the number of students per section making the Experimental Rural High School a laboratory school.
- \* The Bachelor of Science in Agriculture had the highest student enrolment followed by the Bachelor of Science in Forestry, then Bachelor of Science in Agribusiness and Bachelor of Animal Science.

## Scholarship Profile

- \* For SY 1992-1993, 19% and 33% of the total college students (graduate and undergraduate) and the high school students enjoyed scholarships, respectively.

## Scholastic Achievement

- \* ViSCA produced 355 graduates for SY 1992-1993, with 28 in the graduate program, 226 in the undergraduate degree program, 22 in the two-year technician courses, and 79 in the secondary level.
- \* There were 24 students who graduated with honors: 2 *Magna Cum laude*, 11 *Cum laude*, 6 "With High Honors" and 5 "With Honors."
- \* ViSCA's ROTC Unit copped Second Place during the National Annual Tactical Inspection on February 21, 1992.
- \* Cadette Col. Janeth M. Loreto was awarded "ROTC Cadette of the Year" of the Visayas Command, Armed Forces of the Philippines.



- \* ERHS won First Place during the Philippine Mathematics Olympiad, High School Division on August 28, 1992.
- \* ERHS emerged Champion from among the eleven secondary schools in Region VIII during the Regional Science Quiz on October 26, 1992. It also won five of the six major prizes in the Regional Science Fair on November 16-19, 1992.



## Faculty Strength

- \* The total number of ViSCA's faculty members as of December 31, 1992 was 231. Out of this number, 62 were Ph.D. degree holders, 118 M.S. degree holders and 51 B.S. degree holders.

## Faculty & Staff Development

- \* Forty-four (44) academic staff were sent for advanced studies to different local and international universities with 36 of them pursuing Ph.D. degrees and eight (8) taking master's degrees.
- \* During the year, there were 20 international, 69 national, 42 regional and 75 local trainings, seminars/workshops and conferences attended by the faculty.

## Faculty Award

- \* Dr. Federico G. Villamayor, Jr., professor and researcher, received the for Outstanding Public Service.



Dr. F.G. Villamayor receiving the "Dangal Ng Bayan" Award from His Excellency Fidel V. Ramos at the Malacañang Palace.

## Best Paper Awards for Research

### A. National

- \* "Plant Regeneration Through Somatic Embryogenesis from Cultured Zygotic Embryos of Coconut" by Dr. Nguyen Thi Thanh Tuyen.
- \* "Production of Camote Tops in Containers" by Dr. Federico G. Villamayor, Jr.

### B. Regional (Visayas)

#### I. Animal Health Category:

- \* Epidemiology of *Schistosomiasis japonicum* in Domestic Animals" by Dr. Tomas J. Fernandez, Jr.

## II. Animal Production Category:

- \* Fattening Lambs on Varying Dietary Regimes with Cassava-Based Concentrate" by Prof. Lolito C. Bestil.

## Silver Awards for Research and Development

### \* Applied Research Category

- "Collection, Identification, Evaluation and Culture of the Natural Enemies of Abaca Corm Weevil (*Cosmopolites sordidus* Germar) by Dr. Paciencia P. Milan
- "Seedcoating with *Trichoderma veridae* for the Biocontrol of Sclerotium Wilt in Mungbean" by Dr. Rodolfo Paningbatan.

### \* Extension Category

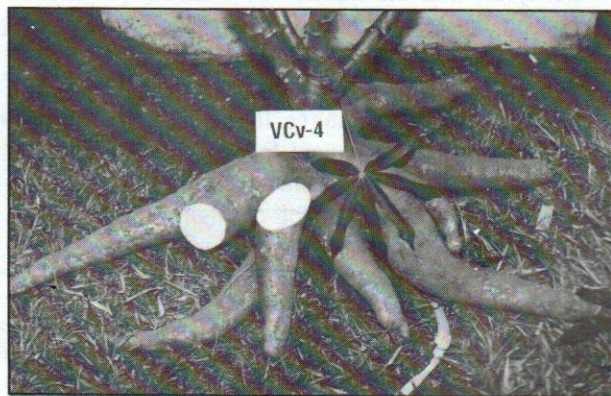
- "Upgrading the Native Carabao through Artificial Insemination" by Dr. Oscar B. Posas

## Research and Development

- \* A total of 212 projects were implemented during the year of which 55 were new, 39 were completed, 34 were extended and 84 were ongoing.
- \* During the R and D In-House Review, five technologies were identified for adaptation and another five for dissemination.

## New Root Crop Varieties

- \* The Philippine Root Crop Research and Training Center developed two new cassava varieties; VCv-4 and VCv-5. These varieties were recommended by the Philippine Seed Board.





## Researchers' Strength

- \* Of the 191 researchers of ViSCA, 31% were Ph.D. degree holders, 51% were M.S. degree holders and 18% were B.S. degree holders.

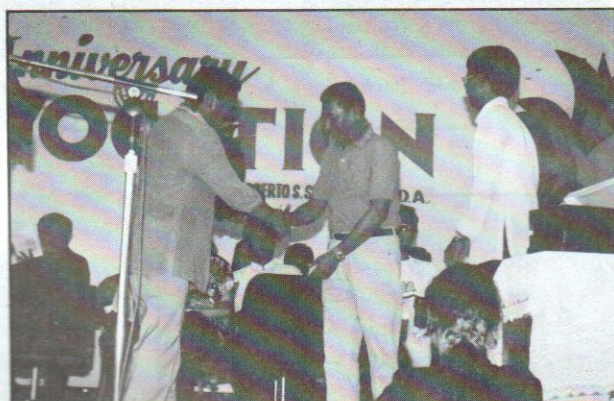
## Institutional Award

- \* ViSCA won the "Most Symbolic Award" during the Science and Technology exhibit on July 6-10, 1992 in Tacloban City.

## ViSCA Anniversary Awardees

- \* During the 68th ViSCA Anniversary the following awards were given:

- "Sandigan Award" -  
United Coconut Planters Bank (UCPB)
- "Mt. Pangasugan Award" -  
Hon. Cong. Eriberto V. Loreto  
Hon. Maria Clara L. Lobregat
- "Distinguished Alumnus Award"
  - a. Research - Dr. Florencio Saladaga
  - b. Farming - Mrs. Daprosa Caparoso
  - c. Public Service - Mr. Enrico Paloma
  - d. Agrib. Mgt. - Mr. Osias B. Awit



*Hon. Eriberto V. Loreto receiving his award.*

## Extension Program

- \* ViSCA, in collaboration with various government agencies, conducted short-term trainings in agriculture and rural development during the year.
- \* Extension activities included non-formal education, short-term trainings and seminars on various topics like: abaca handicraft making, sweet potato

processing, root crop and abaca by-product utilization and other technologies developed by ViSCA. Its clientele included farmers, rural women, out-of-school youth, agricultural technicians and NGO's.

- \* An income generating project for the farmers was established by the Barangay Integrated Development Approach for Nutrition Improvement (BIDANI).
- \* Social action projects spearheaded by the ViSCA-GTZ included the formation of "bantay-dagat" (care of the sea) organization, VEAM's Eco-Warden Movement, activation of "bantay-bukid" (care of the forest) and establishment of tree nurseries and tree planting activities.

## Linkages

- \* ViSCA was chosen by the Department of Science and Technology as the Provincial Science and Technology Center for Agriculture (PSTC-Agriculture) to disseminate different technologies in Region VIII.
- \* ViSCA and the Department of Trade and Industry signed a Memorandum of Agreement regarding the use of ViSCA's feedmill technology.
- \* Establishment of Enzymatic Laboratory at the Department of Plant Breeding and Agricultural Botany, in cooperation with the International Rice Research Center.
- \* ViSCA's Department of Forestry signed a Memorandum of Agreement with the National Network Committee on Tree Breeding and Propagation (NNCTBP) to promote the sustainable management and development of the country's forest resources programs.
- \* Ten key officers of the Philippine Council for Industry and Energy Research and Development (PCIERD) visited ViSCA on March 10, 1992 to explore some possible tie-ups with the College.
- \* Japanese representatives, Tanzanian officials and Australian scientists visited ViSCA to explore possible linkages with the research programs of the College and visited some of its cropping systems research sites.
- \* A collaborative research on peanut was established between the University of Georgia, USA and the Department of Agricultural Chemistry and Food Science of ViSCA.



- \* Research linkages were also established between ViSCA and IRRI, IDRC and GTZ.

### New Acquisitions

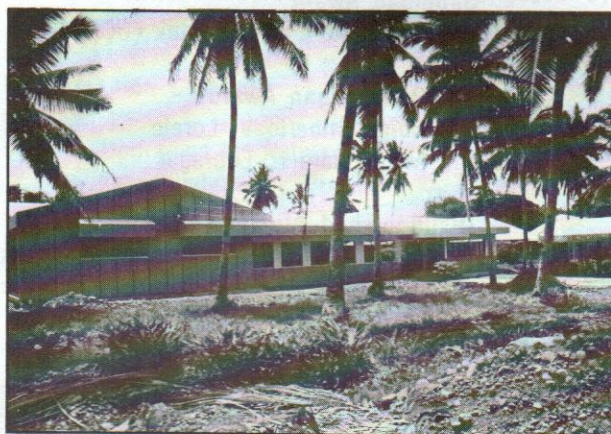
- \* The Department of Plant Breeding and Agricultural Botany acquired a flame photometer slide projector and screen, two air-conditioning units, a Honda generator and a lawn mower.
- \* The Department of Agricultural Engineering and Applied Mathematics acquired 4 sets of computers for instructional use.

### Donations Received

- \* ViSCA received some books from the International Rice Research Institute (IRRI), Asia Foundation, Cornell University's International Institute for Food Agriculture and Development, Asian Vegetable Research and Development Center, Department of Environment and Natural Resources and the Australian Center for Publications Acquired for Development (ACPAD).
- \* The Freshman Student Organization donated some textbooks for first year college students.
- \* The ViSCA Foundation for Agricultural and Rural Development (ViFARD) donated 1 computer unit to the National Abaca Research Center, a 2-door refrigerator and 1 unit electronic typewriter to ViSCA Manila Office and provided financial support for the trip of ViSCA athletes to the SCUAA Meet.

### Physical Facilities Development

- \* The following projects were completed during the year:
  - a. Construction of Agro-Reforestation Building "C"
  - b. Expansion of Horticulture building
  - c. Repair of seven student dormitories
  - d. Fabrication and installation of roof framing system of Food Technology building
  - e. Completion of Agri-Tech Student dormitory
  - f. Partitioning of IH building for graduate students



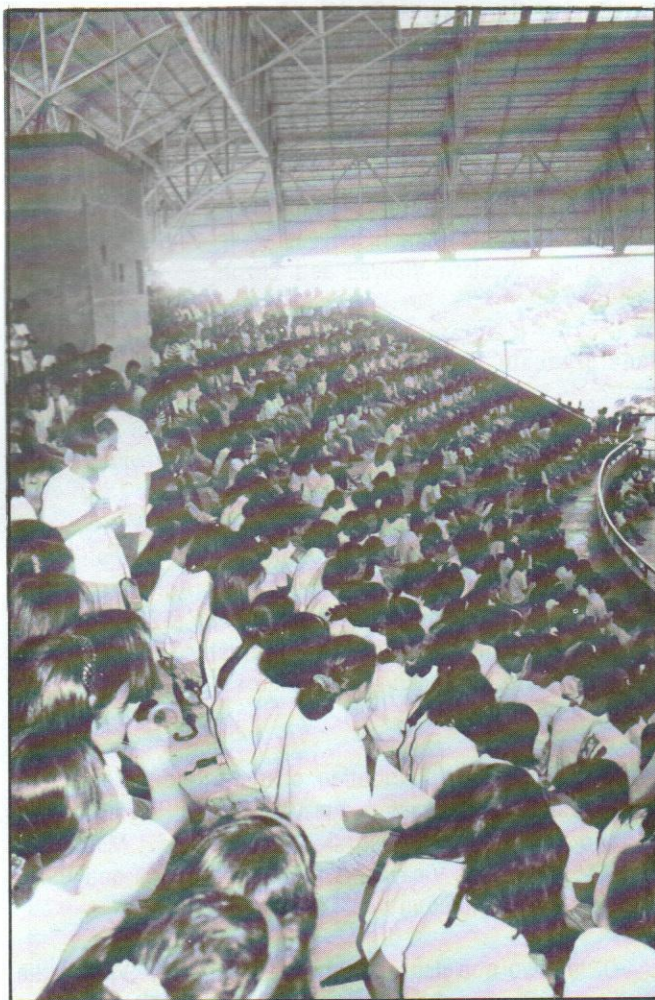
*The Food Technology building undergoing roof framing.*



*The completed Agri-Tech student dormitory.*



# INSTRUCTION



As the center of academic excellence in the Visayas, the Visayas State College of Agriculture has continued to answer the development needs of the Region in terms of its three-fold functions, namely: instruction, research and extension. As one of the three zonal agricultural institutions in the country, ViSCA has played a vital role in the national educational system and spearheaded the teacher training program on the Diploma in Agricultural Technology Education-Master in Agricultural Technology Education (DATE-MATE) program which is sponsored by the Educational Development Program Implementing Task Force (EDPITAF).

During the year under review, ViSCA continued to review its academic programs. Curricular changes in the graduate and undergraduate courses were made and new major fields of specialization under the master's degree program were instituted to conform to the developmental goals of the national government. ViSCA's academic programs were strengthened by the highly competent staff responsible for the improvement of agriculture and the promotion of development in the countryside.



## CURRICULUM DEVELOPMENT

### Graduate Program:

- \* New major courses offered under the master's degree program were as follows: Agricultural Economics (Department of Agricultural Economics and Agribusiness) and Language Teaching (Department of Arts and Letters).
- \* Amendment of the Graduate School Code on Special Problem Requirement under M. Ag. Dev. degree program by treating it as an academic course to be satisfied before the comprehensive examination is taken.
- \* Revision of the DATE-MATE program was made through the changing of course title, fusion and splitting of courses and reduction of the minimum duration of the program making it two years and two summer terms instead of three years.
- \* Weed Science was offered as a major field in the existing M.S. program.
- \* Additional requirements were instituted for the Doctoral degree affecting optional foreign language course and the summary of credit units per degree program.



### **Undergraduate Program:**

- \* Revision and improvement of course outline and syllabi in Agronomy and Soil Science, BSFT, Agricultural Economics and Home Economics curricula.
- \* Revision of BSFT curriculum in the department level.
- \* Offering of Agricultural Chemistry as cognate course in the existing graduate programs of ViSCA effective second semester of school year 1992-1993.
- \* Institution of two required courses under the BSA curriculum major in Plant Breeding and Agricultural Botany, namely: Principles of Ecology and Computer Science.
- \* Revision of BSHE program.
- \* Combination of formal classroom lecture and discussion and laboratory/field activities were the methods generally adopted for teaching.
- \* Revisions of course outlines and syllabi were also done.
- \* Reduction in the total number of units in the BAS Animal Health curriculum and making the curriculum a preparatory course for the Doctor of Veterinary Medicine program.
- \* The proposal to offer the Doctor of Veterinary Medicine was already submitted to the Director of Instruction.
- \* The proposal to revise the BAS, Animal Production major was also completed.

### **Secondary Education Program:**

- \* Improvement of course syllabi and reduction of student enrolment were done in accordance with its conversion to a laboratory school of the College.
- \* The ERHS has two curricular offerings, the existing Agricultural Science curriculum (Scheme I) and the New Secondary Education Curriculum (NSEC) (Scheme II) of DECS. The two curricula differ by 10 units. The subjects of the existing Agricultural Science curriculum were enriched with the addition of topics and other activities from NSEC textbooks. Statistics in the NSEC was integrated in the Mathematics subjects from second year to fourth year.

## **ENROLMENT PROFILE**

### **Graduate Program:**

- \* During the year, a 21.4% (Table 1) increase in the graduate enrolment was achieved with the M. Ag. Dev. program getting the most number of enrollees. The significant increase in enrolment was due to the rise in the number of extramural students.
- \* Most of the graduate students came from Leyte, Mindanao and Central Visayas while others came from Samar, Western Visayas and Luzon.

### **Undergraduate Program:**

- \* The total enrolment for the first semester of SY 1992-93 was 1,940, a 1.0% increase over the previous year's enrolment of 1,920 students (Table 1).
- \* Among the twelve (12) undergraduate degree offerings of ViSCA, the Bachelor of Science in Agriculture continued to have the highest enrolment (328), followed by the Bachelor of Science in Forestry (253), and the Bachelor of Science in Agribusiness (193) and Bachelor of Animal Science (193).
- \* The geographic distribution of undergraduate students was as follows: Eastern Visayas, 84.2% (Leyte, 78.1%; and Samar, 6.1%); Central Visayas, 7.5%; Mindanao, 6.1%; Western Visayas, 1.1%; Luzon, 0.7% and 0.4% from foreign countries.
- \* Of the two non-degree programs offered by ViSCA, the Forest Ranger Certificate got the highest enrolment (166).

### **Secondary Education Program:**

- \* The total high school enrolment for SY 1992-1993 was only 354 students which reflected a 12.4% decrease from the previous year's student enrolment (Table 1).
- \* As a laboratory school of the teacher education departments of the College and following the directive from DECS to have only two sections per year level with a maximum of 50 students per section, the enrolment was properly reduced.
- \* During the school year, two (2) students dropped out for health reasons while seven (7) students transferred due to homesickness and inability to cope with the academic requirements.



Table 1. Comparison of Enrolment, First Semester 1991-92 and First Semester 1992-1993.

Degree Program	First Semester		Difference	Percent Increase/ (Decrease)
	1991-92	1992-93		
1. Graduate Program				
Doctor of Philosophy	-	1	1	0
Master of Science	62	63	1	1.6
Master of Ag. Dev.	187	237	50	26.7
Diploma in Agriculture	15	7	- 8	(53.3)
Unclassified	7	21	14	200.0
Sub-total	271	329	58	21.4
2. Undergraduate Degree Program				
B. S. Agriculture	329	328	- 1	(0.3)
B. S. Ag. Education	165	148	- 17	(10.3)
B. S. Ag. Development	76	94	18	23.7
B. S. Home Economics	136	120	- 16	(11.8)
B. S. Dev. Communication	64	60	- 4	(6.2)
B. S. Ag. Engineering	157	142	- 15	(9.6)
B. S. Agribusiness	141	193	52	36.9
Bachelor of An: Science	159	193	34	21.4
B. S. Ag. Chemistry	23	25	2	8.7
B. S. Food Technology	37	29	- 8	(21.6)
B. S. Statistics	62	75	13	21.0
B. S. Forestry	295	253	- 42	(14.2)
Sub-Total	1,644	1,660	16	1.0
3. Non-Degree Program				
Forest Ranger Certificate	215	166	- 49	(22.8)
Home Economics Technician	55	105	50	90.9
Others	6	9	3	50.0
Sub-Total	276	280	4	1.4
Total (Undergraduate enrolment)	1,920	1,940	20	1.0
4. Secondary Education Program				
First Year	97	93	- 4	(4.1)
Second Year	93	87	- 6	(6.5)
Third Year	87	93	6	6.9
Fourth Year	127	81	- 46	(36.2)
Sub-Total	404	354	- 50	(12.4)
GRAND TOTAL	2,595	2,623	28	1.1



## SCHOLARSHIP PROFILE

### Graduate Program:

- \* Of the total graduate student population, 43% enjoyed scholarships/grants and assistantships. Most of the scholars got their support from the ATEP-EDPITAF, while others got their support from ViSCA, GTZ, DA-ATI and DECS.

### Undergraduate Program:

- \* The comparative data of scholarships and grants-in-aid (Table 2) showed a decrease of 31.7% of the total number of scholars for SY 1992-93 (357) over the previous year (470). This decrease was primarily due to the termination of scholarship support of some sponsors, namely: the Philippine Veteran, Rotary Club of Ormoc, Gov. Jose Gonzales, Congressman Roger Mercado, Department of Environment and Natural Resources (DENR) and Tertiary Education Program of Eastern Samar Educational Foundation (TEPESEF).

- \* Of the total undergraduate students (1,940), 19% were scholars.

- \* The Student Scholarship Fund Raising Committee (SSFRC) supported 26% of the non-ViSCA grants-in-aid. It awarded 25 scholarship slots to deserving ViSCA students.

- \* The SSFRC sponsored a concert featuring the Silliman University Band at the ViSCA Gymnasium on December 17, 1992 as a fund-raising activity.

### Secondary Education Program:

- \* Of the total high school population, 117 or 33% were scholars.
- \* All high school scholars were supported by ViSCA. Each scholar received the following monthly stipend:

Full scholar	-	P 150.00
Partial scholar	-	A: P 100.00
		B: P 50.00
Honorific scholar	-	P 50.00



*A fund-raising activity sponsored by the SSFRC of ViSCA.*



Table 2. COMPARATIVE DATA OF FINANCIAL ASSISTANTSHIPS FROM SY 1989-1990 TO SY 1992-1993.

Scholarship/Grants-In-Aid	SY 1989-90 1st sem. : 2nd sem.	SY 1990-91 1st sem. : 2nd sem.	SY 1991-92 1st sem. : 2nd sem.	SY 1992-93 1st sem. : 2nd sem.
<b>A. VISCA Funded Scholarship</b>				
1. VISCA Entrance Full	4	6	5	16
2. VISCA Entrance Partial	7	3	14	26
3. Honorific	37	19	32	11
4. VISCA Full	15	4	6	2
5. VISCA Partial	73	38	26	35
Sub-Total	136	70	83	66
<b>B. VISCA Funded Grants-in-Aid</b>				
1. Academic Grant A	58	41	38	13
2. Academic Grant B	6	1	5	7
3. Beauty	2	0	10	3
4. Choral	11	11	14	11
5. CMT/ROTC	11	0	3	5
6. Dance Troupe	18	0	12	2
7. Income	9	16	9	8
8. Sangguniang Bayan (SB)	146	156	162	13
9. Varsity	49	0	71	102
Sub-Total	299	214	257	33
<b>C. Government and Private Agencies Funded Scholarship/Grants-in-Aid</b>				
1. Cocobank		20	30	22
2. DENR	2	1	3	1
3. DOST-SEI			1	1
4. Gov. Jose Gonzales (Biliran)			1	2
5. Hon. Cong. Mercado (So. Leyte)		2	3	
6. Knights of Columbus				
7. KTTI				
8. NAFC		1	1	1
9. NRDP		5	4	3
10. PARRFI		2	3	
11. Philippine Veteran	1	2	4	
12. Rotary Club of Ormoc	2	5	4	2
13. Shouchi Yoshida	5	2	2	1
14. State	12	3	1	1
15. SNPL		9	10	2
16. SSFRC		25	25	25
17. SSS Educational Loan		1		
18. Tertiary Education Program of ESEF	4	3	2	
19. VISCASELF			2	
20. WSSP	1	1	1	1
Sub-Total	27	30	105	84
Grand Total	462	419	470	357
				78
				343



## SCHOLASTIC ACHIEVEMENT

### Graduate Program:

- \* For SY 1992-1993, 28 graduate students received their diplomas (7 M.S.; 15 M.Ag.Dev.; 6 Dip. Agr.).

### Undergraduate Program:

- \* Thirteen students (13) received Latin honors during the SY 1992-93 Commencement Exercises: two (2) graduated with *Magna Cum laude* honors and eleven (11) with *Cum laude* honors.
- \* There were 226 graduates from the different undergraduate degree program and only 22 students graduated from the two-year technician program (Table 3).
- \* Of the 164 BSAgEd ViSCA graduates who took the board exam for teachers, 45 passed and ranked second in Region 8 in the 1991 Philippine Board Examination for Teachers (PBET).
- \* All of the seven (7) ViSCA Agricultural Engineering graduates who took the National Board Examination for Agricultural Engineers passed with four (4) of them in the top ten:

- |                            |             |
|----------------------------|-------------|
| 1. Neil I. Luna            | - 3rd Place |
| 2. Renato N. Payod         | - 6th Place |
| 3. Ronaldo A. Cayomo       | - 8th Place |
| 4. Jose Wayne C. Lawas     | - 9th Place |
| 5. Fabian P. Dagooc        |             |
| 6. Gregorio G. Damicog Jr. |             |
| 7. Severino V. Salera Jr.  |             |

- \* Four (4) Forestry graduates of ViSCA passed the Forestry Licensure Board Examination:

- |                        |
|------------------------|
| 1. Allen J. Cebuano    |
| 2. Alicia C. Diaz      |
| 3. Elmer B. Labaclado  |
| 4. Anatolio N. Polinar |

- \* Mr. Jonathan T. Quiton, a senior student of the Bachelor of Science in Statistics, won second place in the National Essay Writing Contest which was co-sponsored by the Peace Library and Research Center, the United Nations Information Center and the National Press Club. The contest was centered on the topic, "What Can I do To Promote Peace."
- \* ViSCA ROTC Unit got the second place during the National Annual Administrative and Tactical Inspection on February 21, 1992. The team of evaluators was headed by LTC Restituto G. Duran, Jr. of the Philippine Army.

- \* ViSCA's Corps Commander of the ROTC Unit for SY 1992-1993, Cadette Col. Janeth M. Loreto was awarded "ROTC Cadette of the Year" of the Visayas Command of the Armed Forces of the Philippines during the 5th Anniversary Celebration of the Visayas Command in Camp Lapulapu at Cebu City. This was the first time that the ViSCA ROTC Unit received such a distinctive award with Cadette Colonel Loreto as the first female advance WATC/ROTC graduate.

Table 3. Number of Graduates for SY 1992-1993.

Program	Number
A. Graduate Program	
1. Master of Science	7
2. Master in Ag. Dev.	15
3. Diploma in Ag. Tech. Ed.	6
Sub-total	28
B. Undergraduate Program	
1. BS Ag. Engineering	9
2. BS Statistics	10
3. B Animal Science	21
4. BS Agriculture	37
5. BS Agribusiness	12
6. BS Ag. Chemistry	3
7. BS Food Technology	5
8. BS Ag. Education	37
9. BS Ag. Development	15
10. BS Dev. Communication	3
11. BS Forestry	46
12. BS Home Economics	28
Sub-total	226
C. Non-degree Program	
1. Forest Ranger Cert.	12
2. Home Economics Tech.	10
Sub-total	22
Grand Total	276



## Secondary Education Program:

- \* Seventy-nine (79) students completed their secondary education with 6 graduates receiving "With High Honors" (4 - agricultural science curriculum, 2 - SEDP curriculum) and 5 graduates "With Honors" (4 from agricultural science curriculum and 1 from SEDP curriculum).
- \* The Experimental Rural High School (ViSCA's laboratory school) was declared Champion during the Regional Science Quiz held at the Leyte National High School, Tacloban City on October 26, 1992. This activity was sponsored by the Philippine Society of Youth Science Club (PSYSC). The activity was participated in by 11 secondary schools in the region.
- \* The ERHS also got the First Place award in the 1992 Annual Tactical Inspection.
- \* In compliance with the Presidential Proclamation No. 255 regarding the observance of the National Health Education Week, the ERHS celebrated the occasion on October 4-10, 1992 with the theme "People Empowerment Through Health Education."
- \* The laboratory high school likewise obtained First Place in both individual and group categories during the Philippine Mathematics Olympiad Division on August 28, 1992 in Baybay National High School, Baybay, Leyte (Table 4).

- \* The ERHS won three major prizes during the Regional Science Fair held in Naval, Biliran on November 16-19, 1992.

**First Place:** "The Distribution of *Mycorrhiza* in *Vetiver* Grass Grown on Soils of Varying Available Phosphorous Content" by An Ly, Gregmar Galinato and Caesar Reyes.

**Second Place:** "Abaca Stripping Waste: A Potential Source of Alcohol" by Darlyn Kristine Lauzon and Norberto Milla

**Third Place:** "A Preliminary Study on the Survival of Bacteria in Manure Suspensions" by Clarissa Colis and Lueli Pet Ponce.

All winners received cash prizes P1,200, P1,000, and P800 respectively, as well as trophies.

- \* It also won Second Place in the Jingle Contest on Environmental Protection entitled "Total Log Ban."
- \* ViSCA's high school and college students won first places in the Regional Statistics Quiz on October 27, 1992 at the Leyte State College in Tacloban City during the celebration of the "3rd National Statistics Month" which was sponsored by the Regional Statistical Coordination Committee of the Regional Development Council and the National Statistical Coordination Board (NSCB).

**Table 4. Outstanding Achievements of ERHS Students for SY 1992-1993.**

Name	Rank	Activity	Date	Venue
<b>A. Individual Category:</b>				
Federico Villamayor	"Ginoong Matematika '92"	Science Fair	Feb. 3-7, 1992	Dolores, E. Samar
Norberto Milla	1st Place	PMO* Area Level	Aug. 21, 1992	Albuera, Leyte
An Ly	1st Place	PMO Division Level	Aug. 28, 1992	Baybay, Leyte
Nello Roa	2nd Place	PMO Division Level	Aug. 28, 1992	Baybay, Leyte
Norberto Milla	3rd Place	PMO Division Level	Aug. 28, 1992	Baybay, Leyte
Noreve Gay Canada	3rd Place	PMO Division Level	Aug. 28, 1992	Baybay, Leyte
Gregmar Galinato	3rd Place	PMO Area Level	Aug. 21, 1992	Albuera, Leyte
<b>B. Group Category:</b>				
<b>3rd Year Team:</b>				
Nello Roa	Champion	PMO Area Level	Aug. 21, 1992	Albuera, Leyte
Darlene Sanchez		PMO Division Level	Aug. 28, 1992	Baybay, Leyte
Noreve Gay Canada				
<b>4th Year Team:</b>				
An Ly	Champion	PMO Area Level	Aug. 21, 1992	Albuera, Leyte
Gregmar Galinato		PMO Division Level	Aug. 28, 1992	Baybay, Leyte
Norberto Milla				
<b>C. ERHS Representatives:</b>				
	Champion			
An Ly		Interschool (Reg'l)	Sept. 9, 1992	Tolosa, Leyte
Gregmar Galinato		Gen. Info Quiz Show		
Noreve Gay Canada				
Darlene Sanchez				
Minette Capacio				

\*PMO - Philippine Mathematics Olympiad



## FACULTY DEVELOPMENT AND ACHIEVEMENT

- \* The total academic teaching faculty of ViSCA was 231, as follows: 62 with Ph.D degrees, 118 with M.S. degrees and 51 with B.S. degrees.
- \* The College has been supportive in developing the competencies of its faculty in relation to their fields of specialization. As of December 31, 1992, forty-four (36 - Ph.D. and 8 M.S./M.A.) academic staff were sent for advanced studies to different local and foreign universities.
- \* A total of 20 international, 69 national, 42 regional and 75 local trainings, seminars/workshops and conferences were attended by the academic faculty (Table 5).

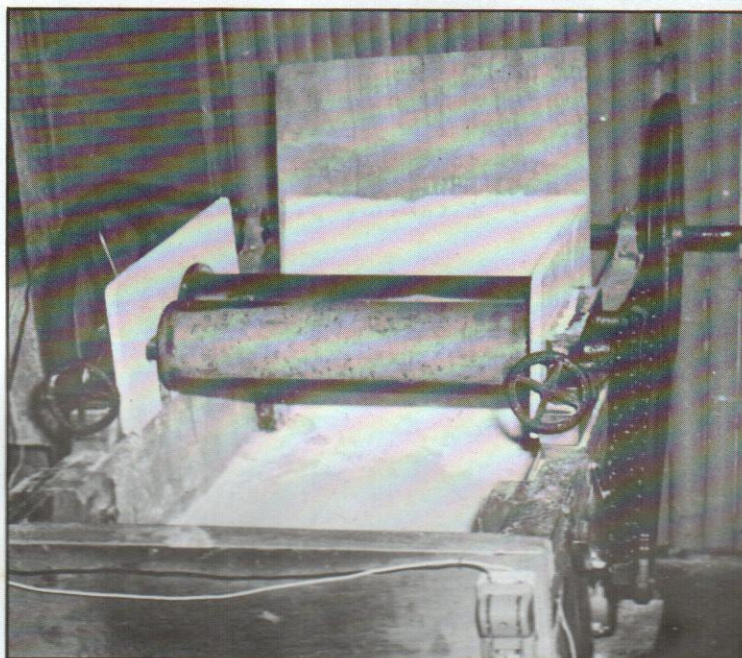
- \* Dr. Federico G. Villamayor, Jr., a professor and researcher of ViSCA received the award for outstanding public service called "**Dangal ng Bayan (Pride of the Nation) Award**" for his professionalism and commitment to public interest in his vigorous drive to conduct researches on root crops and developing new and practical technologies to help farmers increase their produce.
- \* Dr. Monina Escalada, Professor of the Department of Development Communication, served as an international resource person on extension communication at the FAO-sponsored "International Seminar on Important Trends in Agricultural Extension" on May 26-30, 1992 in Beijing, China.

Table 5. In-service trainings/conferences attended by the staff as of December 31, 1992.

Academic Departments	TRAINING CATEGORY							
	International		National		Regional		Local	
	Number of Trainings : Staff Attended : Who Attended		Number of Trainings : Staff Attended : Who Attended		Number of Trainings : Staff Attended : Who Attended		Number of Trainings : Staff Attended : Who Attended	
Ag. Chem. & Food Science	3	4	6	10	4	4	5	6
Ag. Econ. & Agrib.	0	0	3	3	5	5	8	26
Ag. Eng'g. & Applied Math	1	1	2	2	3	3	14	14
Ag. Educ. & Extension	0	0	0	0	5	7	8	8
Agronomy & Soil Science	1	1	0	0	1	1	6	7
Animal Science & Vet. Med.	0	0	3	9	1	6	4	15
Arts and Letters	1	1	5	5	3	3	0	0
Development Communication	0	0	6	7	0	0	3	3
Forestry	2	2	2	2	0	0	12	30
Home Science	0	0	3	4	2	4	0	0
Horticulture	2	2	4	6	0	0	4	8
Plant Breeding & Ag. Botany	2	2	4	6	0	0	4	8
Plant Protection	6	6	26	37	4	12	6	14
Exprt'l Rural High School	2	2	5	8	14	19	1	1
Total	20	21	69	99	42	64	75	140



# RESEARCH



ViSCA's research and development programs in 1992 were geared towards responding to the problems affecting the smallhold farmers in the expansion of agricultural production, improving the productivity of the land and natural resources and tapping different promising crops for human food and animal feeds. During the year, the College continued to introduce agricultural technologies to small farmers and developed as well as evaluated tools and equipment for crop production and processing for village level production.

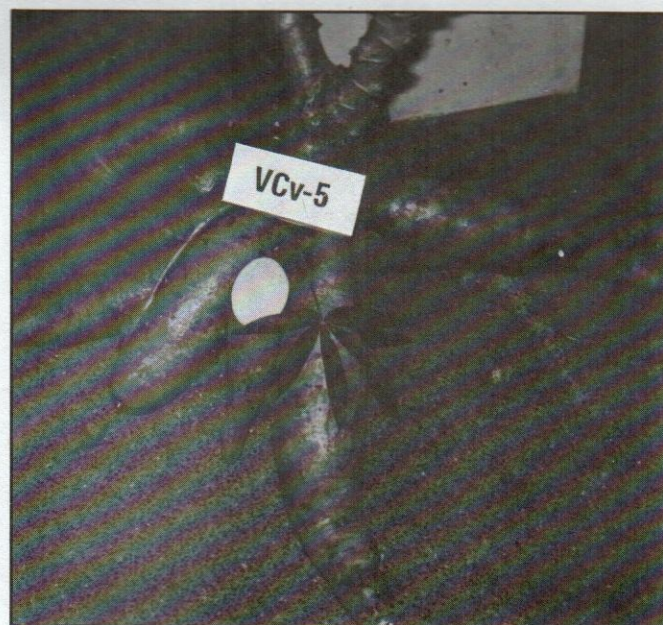
## ACCOMPLISHMENTS

During the year, a total of 212 studies were implemented of which 84 were ongoing, 55 new, 34 extended and 39 completed (Table 6).

The total research fund for CY 1992 was P 18,758,292.95 of which 52.48% came from foreign sources. The biggest foreign support of 32.45% came from IDRC which supported 37 research studies (Table 7).

### New Cassava Varieties Developed

The Philippine Seed Board recommended two cassava varieties, namely: VCv-4 and VCv-5 which were developed by the Philippine Root Crop Research and Training Center (PRCRTC) with the following characteristics:



- A. VCv-4 - yields 32.92 tons/ha. in an open field and 10.25 tons/ha. under coconut; maturity period of 8-10 months; root skin and flesh color is white.
- B. VCv-5 - yields 44.8 tons/ha.; maturity period of 8-10 months; root skin color is white and root flesh color is yellow.



**Table 6. Number of Research Studies Implemented, CY 1992.**

Commodity	Status				Total
	Ongoing	New	Extended	Completed	
1. Abaca & Fiber Crops	7	6	5	2	20
2. Applied Comm.	1	-	-	-	1
3. Applied Rural Sociology	1	-	-	5	6
4. Coconut & Palm Oil	9**	1	1	2	13
5. Corn	1	-	4	-	5
6. Energy	-	-	-	1	1
7. Ecosystem	-	-	-	7	7
8. Farming Systems	7	2	-	4	13
9. Fisheries	-	-	-	2	2
10. Forage & Pasture	2	1	1	1	5
11. Forestry/Social Forestry	5	-	-	5	10
12. Fruits & Fruit Trees	5	-	-	-	5
13. Poultry & Livestock	2	3	-	-	5
14. Rice	3	1	-	-	4
15. Root Crops	36	34	23	8	101
16. Soil Resources	-	5	-	2	7
17. Vegetables	5	2	-	-	7
Total	84	55	34	39	212

\* Ongoing beyond 1992

\*\* with 2 side studies included

**Table 7. Sources of Research Funds for the Implementation of Research Studies, CY 1992.**

Funding Agency	Amount	Contribution (%)	No. of Studies Implemented
<b>A. VISCA (GOP)</b>	P 7,668,803.00*	40.88%	114
<b>B. Local Sources</b>			
DENR-DUP	P 204,872.00	1.09%	8
DOST-PCARRD	16,500.00	0.09%	1
IRRI	683,108.98	3.64%	5
IRRI-FARMI	63,425.00	0.34%	4
OEA-NCRD	50,000.00	0.27%	1
PCAMRD	40,339.00	0.21%	1
PCARRD-PCA	91,287.00	0.49%	1
PCARRD-VISCA	95,668.00	0.51%	2
Sub-Total	P 1,245,199.98	6.64%	23
<b>C. Foreign Sources</b>			
ACIAR	P 478,906.25	2.55%	3
CIAT	55,000.00	0.29%	4
CIP	56,000.00	0.30%	2
GTZ	2,034,392.85	10.84%	14
IDRC	6,086,307.20	32.45%	37
IDRC-SEARCA	30,000.00	0.16%	1
IFS	586,908.67	3.13%	6
INSURF	25,000.00	0.13%	1
RTI, Netherlands	228,054.00	1.22%	1
UPWARD	136,976.00	0.73%	2
WINROCK-F/FRED	126,745.00	0.68%	4
Sub-Total	P 9,844,289.97	52.48%	75
GRAND TOTAL	P 18,758,292.95	100.00%	212

\*Considering only direct cost.



## Manpower Resources

A total of 191 personnel were involved in research. Out of the 191 researchers, 31% were with PhD, 51% with MS and 18% with BS degrees.

Ninety-three (93) of the total 191 researchers obtained their highest degree from Los Banos while 38 from ViSCA, 4 from Iowa State University and Massey University, 3 from Cornell University, Ohio State University and Asian Institute of Technology. Others obtained their degrees from different universities in Australia, England, USA and Japan.

## Research Awards

### A. National

"Best Paper" Awards (National level) were won by Dr. Nguyen Thi Thanh Tuyen with her research paper entitled, "Plant Regeneration Through Somatic Embryogenesis from Cultured Zygotic Embryos of Coconut" during the 6th Annual Scientific Conference of the Federation of Crop Science Societies of the Philippines on May 24-28, 1992; and Dr. Federico Villamayor's research paper entitled "Production of Camote Tops in Containers" of the Society for the Advancement of Vegetable Industry.

### B. Regional

During the Fourth Regional Symposium on Regional R & D Highlight on June 2-4, 1992 at the University of Eastern Philippines, ViSCA's researchers got silver awards in the different categories:

#### A. Applied Research Category:

- "Collection, Identification, Evaluation and Culture of the Natural Enemies of Abaca Corm Weevil (*Cosmopolites sordidus* Germar) by Dr. Paciencia P. Milan.
- "Seedcoating with *Trichoderma veridae* for the Biocontrol of Sclerotium Wilt in Mungbean" by Dr. Rodolfo Paningbatan.

#### B. Extension Category:

- "Upgrading the Native Carabao through Artificial Insemination" by Dr. Oscar B. Posas

In the 10th Annual Scientific Convention of the Philippine Society of Animal Science in the Visayas on July 24-25, 1992 at Tacloban City, major awards were won by ViSCA on the following categories:

### A. Animal Health Category:

**Best Paper Award** (First Place): "Epidemiology of *Schistosomiasis japonicum* in Domestic Animals" by Dr. Tomas J. Fernandez, Jr.

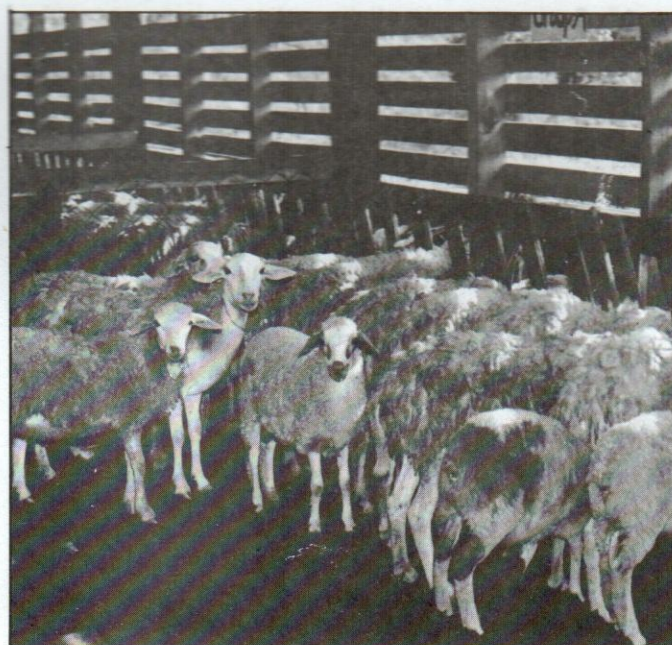
**Third Place:** "The Application of Epidemiological Methods to Livestock Health in Smallhold Farms." by Dr. Eugene B. Lanada.

### B. Animal Production Category:

**Best Paper Award** (First Place): "Fattening Lambs on Varying Dietary Regimes With Cassava-Based Concentrate" by Prof. Lolito Bestil.

**Second Place:** "Evaluation of Improved Forage Grass Species in Acid Soil Upland Agroecosystem of Matalom, Leyte" by Dr. Sulpecio C. Bantugan, et. al.

**Third Place:** Farmer's Perception on the Occurrence of Estrus (Heat) in Carabaos During the Full Phase of the Moon" by Dr. Alberto A. Taveros, et. al.



Experimental lambs of the DASVM.



## SIGNIFICANT RESEARCH FINDINGS

### Abaca:

1. **Economic feasibility of intercropping selected abaca varieties with annual crops in flat, open lands.** Research Center: NARC. Funding Agency: PCARRD/ViSCA. Abaca planted with intercrops performed better in terms of growth and yield compared to abaca planted without intercrops. Regardless of the intercrop used, abaca planted at 2m x 2m distance gave higher fiber yield compared to those planted at 2m x 3m distance. Moreover, abaca planted at 2m x 2m distance which were intercropped with peanut, upland rice and mongo during the first, second and third cropping, respectively gave the longest and heaviest stalks, with the widest base circumference and the longest and heaviest fibers. Cost and return analysis showed that only those cropping schemes for annual crops employed in the open field (monocrops), gave positive net returns.

### Cononut:

1. **Socioeconomic studies of promising coconut-based cropping systems involving field legumes, root crops and cereals.** Research Center: RCRC. Funding Agency: ViSCA. The study showed that more crops planted in a pattern, the higher was the gross field benefits. Net benefits and marginal benefit-cost ratio (MBCR) analyses revealed that the better performers were the coconut plus corn (improved variety) and the coconut plus mongo (improved variety) patterns. The crops in the lime-treated areas also performed better than the unlimed.

### Crop Protection:

1. **Survey, Identification and Screening of Plants With Pesticidal Potential in Mt. Pangasugan.** Department: Plant Protection. Funding Agency: ViSCA-GTZ. The study identified 18 species of pesticidal plants belonging to 9 plant families, as follows: Asteraceae (1), Dioscoreaceae (1), Menispermaceae (1), Myrtaceae (1), Papilionaceae (4), Portulacaceae (1), Piperaceae (2), Verbenaceae (5) and Zingiberaceae (3).

The extracts of *Dioscorea hispida* exhibited high repellancy on sweet potato weevil. It also possessed insecticidal activity against bean aphid together with *Portulaca oleracea*, Zinger sp. and *Tinosphora rumphii*. Percent mortality of rice bugs was highest in rice treated with the extracts of

*Gliricidia sepium*, followed by *Stachytarpheta jamaicensis* and *Cassia alata*.

Fungicidal activity of the different plant extracts indicated that *C. alata* and *M. cordata* caused complete inhibition of spore germination of *Colletotrichum gleosporoides*.

*D. hispida*, *C. alata* and *M. cordata* extracts were the most fungitoxic against *Pyricularia oryzae*, *Rhizoctonia solani*, *C. gleosporoides* and *Sclerotium rolfsii*.

### Farming Systems:

1. **Adaptation and Evaluation of a Micro Rice Mill in Upland Villages of Matalom, Leyte.** Research Center: FARMI. Funding Agency: IRRI. The study revealed that the micro rice mill was capable of processing small quantities of paddy rice with certain levels of efficiency, quality and standards. Economic performance indicators showed that the micro rice mill was a worthwhile investment. The interest and enthusiasm of women to acquire a unit for their own association indicated that the mill helped much in their rice milling needs.

### Forage:

1. **Ecological and Micro-Climatological Environment of Desmodium, Siratro and Other Indigenous Forage Species Grown Under Yemane.** Department: Forestry. Funding Agency: PCARRD-ViSCA. Siratro and *Desmodium* had significantly increased herbage yield of forage in the open. However, no significant differences were observed under the yemane-forage community. There was a significant diameter increment in yemane integrated with *Desmodium*, higher than yemane with Siratro and the control (yemane alone).

### Livestock:

1. **Fattening Lambs in Varying Dietary Regimes Containing Cassava-Based Concentrate.** Department: DASVM. Funding Agency: RRD. The study revealed that dry matter intake (DMI) of all roughage diet (Guinea grass + Kakawate) was significantly higher than that with cassava-based concentrate. Among diets with concentrate, the highest was with Guinea grass (diet B) and lowest was with Kakawate (diet C) with rice-straw-urea-molasses (diet D) as the basal component. Feeding of cassava-based concentrate was feasible even at high levels because it promoted faster growth rates and at the same time, because of its characteristic low in cost which could offset more than its "substitution effect" on the intake of roughage component.

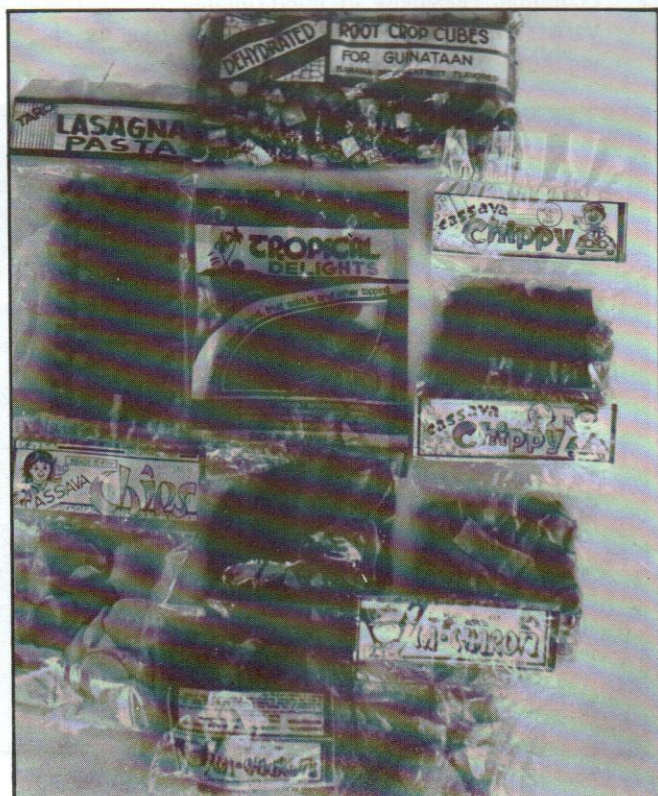


### Multi-Purpose Tree Species:

1. **Marketing of Jackfruit in Central Visayas.** Department: Ag. Econ. & Agribusiness. Funding Agency: WINROCK. The study revealed that jackfruit as a multi-purpose tree species was commercially produced in Central Visayas. Jackfruit products marketed were fruits and tree products (logs) which were brought by guitar-ukelele makers/ processors. Trading of fruit products were in common in the four provinces of Central Visayas: Cebu, Bohol, Negros Oriental and Siquijor. Trading of fruits for processing was generally concentrated in Cebu City where processing firms utilized fresh fruits as raw materials. Processing of the fruits varied according to the size, quality and the type of middlemen. Tree products specifically logs, were only commercially traded in Cebu where the guitar/ukelele makers were located. Prices were dependent on the size and quality of the trunk and the negotiation between the sellers and the buyers.

### Root Crops:

1. **Potential and New Uses of Minor Rootcrops.** Department: Food Science. Funding Agency: IDRC. Standardized the formulation of arrowroot cookies (shell form). Developed a flaked product from arrowroot. Optimized processing conditions and ingredient combinations of cocoyam waffle product.



Root crop food products

## LIST OF COMPLETED RESEARCHES

### A. TECHNICAL DEPARTMENTS:

#### Department of Agricultural Chemistry and Food Science:

1. Development and Improvement of Bakery Products from Sweet Potato and Cassava. Funding Agency: PRCRTC.
2. Potential and New Uses of Minor Rootcrops. Funding Agency: IDRC.
3. Utilization of Stabilized Cocomilk. Funding Agency: ViSCA.

#### Department of Plant Breeding and Agricultural Botany:

1. Development of a Technique for Identifying Desirable Abaca Hybrids at Early Stage of Plant Growth. Funding Agency: PCARRD/VISCA.

#### Department of Forestry:

1. Ecological and Micro-Climatological Environment of *Desmodium*, Siratro and other Indigenous Forage Species Grown Under Yemane. Funding Agency: PCARRD-VISCA.

#### Department of Horticulture:

1. Jackfruit/Tree Improvement by Farmers in the Philippines. Funding Agency: WINROCK.
2. Screening of Sweet Potato Genotypes for Storability Parameters. Funding Agency: IDRC.

#### Department of Plant Protection:

1. Anthropod Communities and Distribution in Mt. Pangasugan. Funding Agency: GTZ.
2. Survey and Identification and Screening of Plants with Pesticidal Potential in Mt. Pangasugan. Funding Agency: GTZ.
3. Decomposers of Mt. Pangasugan. Funding Agency: GTZ.
4. Macroscopic Fungi in Mt. Pangasugan. Funding Agency: GTZ.
5. Hydrobiology and Spot Assessment of Marine Resources in Baybay Waters. Funding Agency: GTZ.



6. Screening of Cassava and Sweet Potato Cultivars For Effective Mycorrhizal Association. Funding Agency: PCARRD.
7. Pheromone Trap and *Metarhizium anisopliae* for the Control of Sweet Potato Weevil, *Cylas formicarius* (F.). Funding Agency: CIP/PRCRTC.

#### Department of Agricultural Economics and Agribusiness:

1. Marketing of Jackfruit in Central Visayas. Funding Agency: WINROCK.
2. Feasibility Studies of Root Crops for Food, Feeds and Other Uses. Funding Agency: IDRC.
3. Profitability and Marketability of High Yielding Sweet Potato Varieties. Funding Agency: IDRC.
4. Economic Analysis of Improved Technology in Root Crop Processing and Utilization. Funding Agency: IDRC.
5. Cost and Return Analysis of Improved Technologies on Root Crops Processing. Funding Agency: IDRC.

#### Department of Animal Science and Veterinary Medicine:

1. Feeding Potential of Weevil-Infested Sweet Potato Meal As Affected by Microbial Treatment in Broilers. Funding Agency: PRCRTC/PCARRD.
2. Fattening Lambs in Varying Dietary Regimes Containing Cassava-Based Concentrate. Funding Agency: RRDP.

### B. RESEARCH CENTERS:

#### Center for Social Research:

1. Survey of Jackfruit Production Areas and User Groups in Central Visayas, Philippines. Funding Agency: WINROCK (F-FRED).
2. Profiling of CVRP-Assisted Associations and Cooperatives. Funding Agency: CVRP.

#### Regional Coconut Research Center:

1. Development of Coconut-Based Cropping Systems Involving Annual Crops in Young Coconut Plantations. Funding Agency: ViSCA/PCARRD.
2. Socioeconomic of Promising Coconut-Based Cropping Systems Involving Field Legumes, Root Crops and Cereals. Funding Agency: ViSCA.

3. Design, Fabrication and Evaluation of an Electric Motor-Driven Coconut Husk Fiber Extractor. Funding Agency: ViSCA.

#### Farm and Resource Management Institute:

1. Testing and Refinement of the Wealth Ranking Technique used as a Tool to Stratify Rural Households. Funding Agency: IDRC.
2. FARMI's Experiences on Wealth Ranking in the Philippines: Different Farmers Have Different Needs. Funding Agency: IDRC.
3. Farmers' Evaluation of Indigenous Tree and Shrub Species in Matalom, Leyte (Phase I). Funding Agency: IDRC/FARMI.
4. Adaptation and Evaluation of a Micro Rice Mill in Upland Villages of Matalom, Leyte. Funding Agency: IRRI.
5. A Survey of Upland Rice Weeds in Three Villages of Matalom Using the Method of Pablico and Moody (1985). Funding Agency: ADB/IRRI.

#### National Abaca Research Center:

1. Development of a Technique for Identifying Promising Abaca Hybrids at Early Stage of Plant Growth. Funding Agency: PCARRD/ViSCA.
2. Economic Feasibility of Intercropping Selected Abaca Variety With Annual Crops in Flat, Open Lands. Funding Agency: PCARRD/ViSCA.



*Intercropping abaca with takudo*



# EXTENSION



ViSCA's extension activities during the year complemented its research programs through dissemination of relevant research findings to the target clientele and assisting them in adopting these technologies. ViSCA also continued its role in upgarding the technical knowhow of rural development workers and delivered services to its different clientele in the form of trainings seminar/workshops, consultancies, technical assistance and information dissemination through print and radio.

## EXTENSION HIGHLIGHTS

### A. Technology Transfer

#### 1. Piloting of mature technologies

- \* Technology for Adaptation:
  - a. Screening techniques for resistance to scale insects and red spider mite utilizing scraped skin of cassava and leaf disc of MOP 24-2, CMr77-15 and G29r-3.
  - b. Flower induction techniques in the application of GAB at 4-6 weeks after planting.
  - c. Protocol for mass propagation media of tissue culture of tropical root crops.
  - d. Coconut-based intercropping.

#### e. Charcoal-making using the pit method.

#### \* Technology for dissemination:

- a. Corn recommended variety, VM-2.
- b. Mushroom production using abaca waste.
- c. Handicraft production using "bacbac".
- d. Sweet potato varieties, Red Wonder & PBSB Sp 14.
- e. Sweet potato catsup, jam and beverage.

#### 2. Impact of ViSCA's technologies:

- a. Sweet potato

The Philippine Root Crop Research and Training Center (PRCRTC) had worked with the National Agricultural Food Council (NAFC) in commercializing the rootcrop-based feedmill in Pangasinan. This project aims to benefit some 5,000 Malasigui farmers and processors. Evaluation and feasibility study including provisions for technical assistance had been conducted. Training of farmers by PRCRTC was followed by the formal launching of the project on May 25-29, 1992.



The Department of Plant Breeding and Agricultural Botany continued to produce and distribute to farmers high quality seeds/planting materials. In 1992, 38,000 sweet potato cuttings of VSP 1 to VSP 7 varieties were distributed and/or sold to sweet potato farmers throughout the country. About three tons of VM-2 corn seeds were produced and distributed to white corn farmers in the Visayas, seeds of selected upland rice varieties of limited quantities were produced and made available to upland rice researchers.

b. Abaca

In February 1992, the Canjumadal Abaca Farmers Multi-Purpose Cooperative in Northern Samar bought 18,000 seedpieces of abaca. Request for more planting materials from farmers and NGO's were received. In June 1992, request for planting materials good for 10,000 hectares was received from Musatex Corporation that would put up a pulp and paper processing plant in Albueria, Leyte.

The technology on abaca waste utilization was adopted by farmers, teachers, out-of-school youth and trainees in Leyte and Cebu. The developed technology picked up also by an NGO, the Philippine Relief and Assistance Development Service (PhilRAADS) to generate employment in the depressed areas of Region 8.

c. Coconut

Of the 9 promising coconut hybrids developed by the Regional Coconut Research Center (RCRC), the first four (RCRC 1 - 4) which were identified as high-yielding and precocious were dispersed and adopted by farmers in Central and Eastern Visayas regions.

d. Feedmill

ViSCA and the Department of Trade and Industry represented by its Regional Director Victor A. Domingo signed the Memorandum of Agreement on the use of ViSCA's feedmilling technology. This was intended to be used by the small scale livestock raisers and farmer-beneficiaries of the Comprehensive Agrarian Reform Program (CARP) of Borongan, Eastern Samar.

2. Technoguides, leaflets and other printed materials

The different technical departments and research centers of the College continued to produce extension-related publications during the year. Some research centers were able to publish the following printed materials:

**National Abaca Research Center:**

1. Ang Hustong Pag-abakahan
2. Paghimo og Papel Gikan sa Abaka
3. Ang Pagpatubo og Uwaping Gikan sa Biya sa Abaka
4. Utilization of Abaca Waste for Mushroom Culture
5. Impact of ViSCA R & D on Abaca

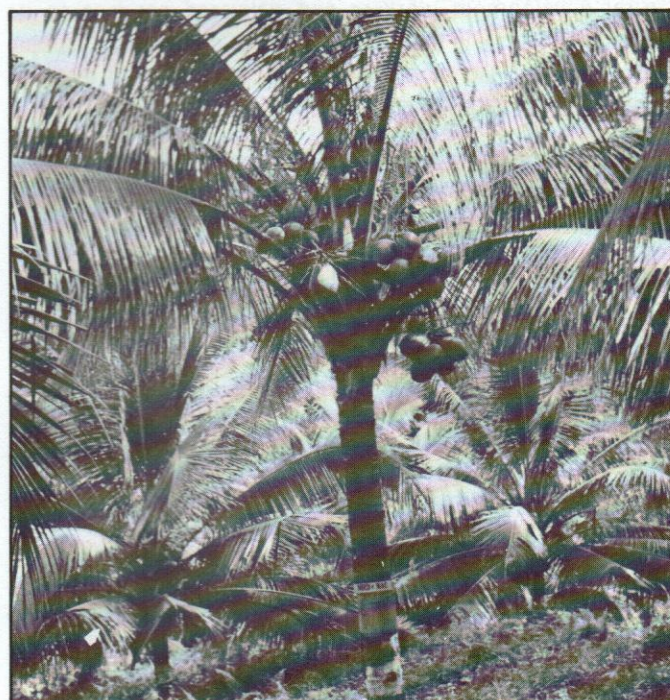
**Farm and Resource Management Institute:**

1. "Hapi-hapi" as a Method of Controlling Cogon
2. Technoguide on Mura
3. On-Farm Notes
3. Radio

DYAC continued to serve as a vehicle for technology transfer by disseminating information on crop and livestock production, disease control of crops and livestock, the conservation/protection of our natural resources and other research results.

4. Rural theater

The ViSCA Mobile Theatre through the Department of Arts and Letters was revived during the year with a stage play entitled "Hukmi Ninyo Kami." The play served as a medium to spur environmental protection at the barangay level and enhance everyone's awareness of other environmental concerns for the preservation and rebuilding of Mother Earth.



*A promising coconut hybrid*



## 5. Farm demonstrations

The College has maintained seven demonstration farms for sweet potato, coconut, abaca, multipurpose tree species, forest farming, vegetables and flowers, farming systems and soil researches.

## 6. Training Activities

In 1992, various training activities were conducted by the different departments and centers of the College (Table 8).

Its clientele included the farmers, rural folks, out-of school youth, teachers, extensionists and agricultural technicians.



*RCRC Demo Farm (intercropping coconuts with peanuts)*

**Table 8. List of trainings conducted by the different Departments/Centers for CY 1992.**

Department/Center	Title of the Trainings Conducted
Ag. Chem. and Food Sci.	Sweet Potato Processing; Rootcrop Processing and Utilization; Economics of Production, Processing and Marketing; Cassava and Sweet Potato Processing and Utilization; Bakery Products from Sweet Potato and Cassava
Ag. Eng'g. and Applied Math.	Scientific Assessment of the Ormoc City Flood, DOST Ormoc Task Force Scientific Study Group; Survey of an Alternative Pipeway Course for the Water Supply of Mailhi, Baybay, Leyte; Limasawa Solar Homelighting System Project
Agronomy	Kuhol Control; Corn-Legume Intercrop; Nutrient Management of Lowland Rice; Inoculation of Grain Legumes
Physical Educ.	First Aid Training; Lecture-Demo on Dance; Swimming and Life Saving; Lecture-Demo on Basketball Officiating
CSR	Duck and Swine Raising; Orchid and Vegetable Production; Sloping Agricultural Land Technology (SALT); Program Planning; Monitoring & Evaluation; Bookkeeping; Accounting & Auditing
NARC	Skill Training in the Utilization of Umbak; Utilization of Abaca; Abaca Handicraft Training; Short Training Course on Abaca Waste; Training on Paper Making Using Abaca Waste; Abaca-Based Cropping System Demo Farm
FARM	Promotion of Soil Water Conservation Technologies; Development of Information Database on Weeds in Upland Rice/Upland Rice-Based Farming System
GTZ	Handicrafts Training; Wig Making; Seminar-workshop on Officers and Members of Corp.; Bookkeeping, Accounting and Auditing Procedures; Training on Leadership Capability Building; Pagbansay-bansay Alang sa Pagtanum ug Pag-atiman sa Kahoy; Garments Clinic; Training on Sustainable Hillside Farming; Training on Orchid Production; Organizational Development Training



## B. Technical Assistance

The different research centers and technical departments extended technical assistance to farmers and other clientele on pest control measures, soil analysis, root crops processing and waste utilization and other specific needs.

## C. Community-Based Projects/Social Action Projects

1. Mag-aaral Saka-Unlaran Project (MSUP). Center: CSR  
Funding Agency: DAR.

Despite problems on disputed land claims and the unstable peace and order situation, the project was able to spur agricultural development in the resettlement area in Brgy. Maligaya, Sta. Rita Samar through the absorption of qualified and committed agricultural graduates as CARP beneficiaries.

3. Barangay Integrated Development Approach for Nutrition Improvement (BIDANI). Department: Home Science. Funding Agency: BIDANI.

The Barangay Integrated Development Approach for Nutrition Improvement (BIDANI) estab-

lished its "Socio-Economic Assistance Project (SEAP)" from which the beneficiaries could avail of a small loan to start an income generating project.

4. Barangay Integrated Area Development Project (BIADEP). Department: Agricultural Economics and Agribusiness. Funding Agency: ViSCA

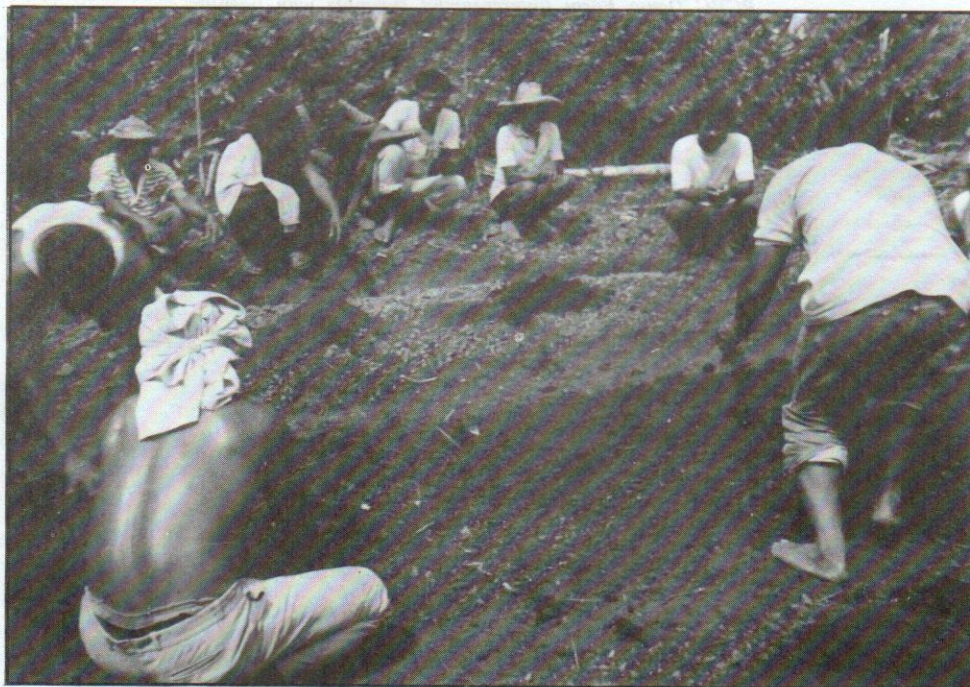
This project aimed at accelerating area productivity among rural communities, support agencies and institutions.

5. Bantay Kalikasan Project. Department/Center: GTZ. Funding Agency: GTZ.

Formation of "bantay-dagat" (care of the sea) organization among fishermen of Barangay Guadalupe with 45 members was completed.

6. Bantay-bukid. Department/Center: GTZ. Funding Agency: GTZ.

Activation of "bantay-bukid" (care of the forest) organization among kaingineros (shifting cultivation farmers) in barangay Marcos and Guadalupe with 60 members.



*Farmers watching MSUP staff demonstrating the proper steps in growing cabbage and tomatoes.*



Mt. Pangasugan Action Project. Department/Center: GTZ/CSR. Funding Agency: GTZ.

This project aimed to uplift the living conditions of the kaingineros, women and youth of the four barangays of Patag, Guadalupe, Pangasugan, and Marcos through the development of ecologically sound alternative livelihood sources. Activities included strengthening of the existing livelihood corporations, tree planting and manpower services.

8. Villa Ridge. Department/Center: Horticulture/GTZ/CSR. Funding Agency: GTZ.

This project involved the households in the barangays of Mailhi and Villa Solidaridad in cutflower production (roses, orchids, anthurium, ornamentals) as an alternative livelihood source as well as agroforestry for increased farm productivity and environmental rehabilitation. Community-based reforestation project was also established.

**D. Development of Effective Technology Transfer Scheme for Appropriate Root Crop Production, Utilization, Processing and Marketing Technologies at the Community Level.**

- a. IRCP Outreach Project. Center: PRCRTC.

The project's goal was to develop effective and efficient root crop technology transfer schemes at the community level. Conduct of participatory on-farm verification and adaptation trials, community organizing and training of farmer-leaders and extension workers were the key components of the extension strategy.

**E. Other extension activities**

The ViSCA-GTZ Ecology Program established a demonstration farm, entitled "Closed Canopy and High Diversity Forest Farming System" and formed the VEAM's Eco-Warden Movement.

The Department of Animal Science and Veterinary Medicine (DASVM) conducted artificial insemination on carabaos, continued its Mobile Health Clinic and sheep dispersal activities.

The Department of Agronomy and Soil Science (DASS) distributed forage-legumes and grass pasture seeds and recommended fertilizer for selected crops to interested farmers and clientele.



*Cutflower production*



*Agroforestry project*



*A nursery of the "Closed Canopy High Diversity Forest Farming System" of the ViSCA-GTZ Ecology Program.*



The Department of Plant Protection through its Plant Pest Clinic diagnosed pest infestation and performed control measures against termite infestation in ViSCA buildings. It also trained farmers from a nearby barangay on the use of *Trichoderma* for rapid composting. In addition, its Biological Museum acquired new collections of arthropod specimens.

The Center for Social Research (CSR) conducted a Voters Education Program designed to educate the rural populace on the significance and demands of the 1992 elections. It supported the network of NGOs and assisted in the production of a newsletter "Bangon." It also conducted a series of video documentaries on the environment and development for students and staff. Likewise, it conducted a Socio-economic Database Project in Support to the Local Government Units to provide local government units with readily available, comprehensive and up-to-date information for effective planning and program implementation. It also conducted a forum to enhance the participation of NGOs and POs in local governance through its project, entitled "Strengthening NGO Participation in LGUs Seminars."

The National Abaca Research Center (NARC) maintained a one-fourth hectare abaca-based cropping system demonstration farm. It also rendered technical assistance in the installation of spindle stripping machines and establishment of an abaca plantation. Other extension programs of NARC included the commercialization of abaca products and by products, technical update on abaca technologies and technical assistance on pest control of abaca, fabrication of secondary processing tools and gadgets, abaca production and management and abaca waste utilization. It also distributed abaca seed pieces to farmers and farmer-cooperatives in Northern Samar and different barangays in Baybay.

The Department of Agronomy and Soil Science (DASS) conducted non-formal consultancy on soil and cultural management of lowland and upland field crops at the nearby villages of ViSCA. Rhizobium and mycorrhizal inoculation for selected crops among farmers, fieldmen and other interested clientele was done. Informative exhibits about soil and crop production and management were also put up. About 1,000 seedlings and 3 kg. seeds of leguminous trees were distributed to interested farmers and clientele.



*Voters Education Training at the CSR AV room.*



*Abaca handicraft products*



# LINKAGES



In the pursuit of its mission and program thrusts, ViSCA has established linkages with the local, regional, national and international agencies, and non-government agencies.

In 1992, ViSCA's established linkages with local, national and international agencies were as follows:

## International:

1. Australian Centre for International Agricultural Research (ACIAR)
2. Australian National University and International Institute of Tropical Agriculture (ANU-IITA)
3. Centro Internacional de Agricultura Tropical (CIAT)
4. Centro Internacional de la Papa (CIP)
5. Cornell University
6. Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ)
7. Food and Agriculture Organization of the United Nations (FAO)
8. Ford Foundation
9. Forestry/Fuelwood Research and Development (F/FRED)
10. International Development Research Centre of Canada (IDRC)
11. International Foundation for Science (IFS)
12. International Rice Research Institute (IRRI)
13. International Service for National Agricultural Research (ISNAR)
14. New Zealand Embassy (NZE)
15. Nitrogen-Fixing Trees Association (NFTA)
16. Royal Tropical Institute (RTI), Amsterdam
17. South Carolina State College (SCSC)
18. Southeast Asian Research Center for Agriculture and Graduate Studies (SEARCA)
19. Tissue Culture for Crops Project - Colorado State University (TCCP-CSU)
20. United States Agency for International Development (USAID)
21. User's Perspective with Agricultural Research and Development (UPWARD)
22. Winrock International (WINROCK)
23. World Neighbors International (WN)
24. International Institute for Rural Reconstruction (IIRR)
25. University of Georgia, USA
26. International Network on Soil Fertility and Sustainable Rice Farming (INSURF)



**Local:**

**A. Government:**

1. Carigara School of Fishery
2. Central Visayas Regional Project (CVRP)
3. Department of Agriculture (DA)
4. Department of Agrarian Reform (DAR)
5. Department of Budget and Management (DBM)
6. Department of Environment and Natural Resources (DENR)
7. Department of Education, Culture and Sports (DECS)
8. Department of Interior and Local Government (DILG)
9. Department of Social Welfare and Development (DSWD)
10. Department of Health (DOH)
11. Department of Science and Technology (DOST)
12. Department of Public Works and Highways (DPWH)
13. Department of Trade and Industry (DTI)
14. Development Bank of the Philippines (DBP)
15. Fiber Development Authority (FIDA)
16. Land Bank of the Philippines (LBP)
17. National Economic and Development Authority (NEDA)
18. National Irrigation Authority (NIA)
19. National Nutrition Council (NNC)
20. Office of Energy Affairs- Non-Conventional Research Division (OEA-NCRD)
21. Philippine Coconut Authority (PCA)
22. Philippine Council for Agriculture, Forestry and Natural Resources and Development (PCARRD)
23. Philippine National Oil Company (PNOC)

24. Philippine Seed Board (PSB)

25. Rainfed Resource Development Project (RRDP)

26. University of the Philippines at Los Baños (UPLB)

**B. Private:**

1. Ateneo Center for Social Policy and Public Affairs
2. Baybay Barangayanon Jaycees (BBJ)
3. CASALFA
4. De La Salle University - Philippine Upland Resource Center
5. KAISAHAN Tungo sa Tunay na Repormang Pansakahan
6. Knights of Columbus 3690 (KC)
7. FORWARD
8. Forest, Trees, and People Network (FTPN)
9. Franciscan College of Immaculate Conception (FCIC)
10. International Pharmaceutical, Inc. (IPI)
11. Soil and Water Conservation Foundation, Inc. (SWCFI)
12. LABRADOR
13. De la Salle University - Philippine Upland Resource Center (PURC)
14. Rural Development Forestry Network (RDFN)
15. Sabin Larrazabal Farm Enterprises
16. LEISA
17. Women's Association of the Philippines
18. PHIRCSDIK/IIRI/REPPIKA
19. Mag-uugmad Foundation Inc. (MFI)
20. Matling Industrial and Commercial Corporation (MICC)



## ACCOMPLISHMENTS

During the year, ViSCA's linkages to various agencies helped much in supporting its programs as well as in discovering the institution's potential for countryside development to wit:

- \* ViSCA was chosen by the Department of Science and Technology as the Provincial Science and Technology Center for Agriculture (PSTC-Agriculture) to disseminate different technologies in Region VIII.
- \* The ViSCA Foundation for Agricultural Research and Development (ViFARD) financed the trip of the ViSCA athletes for the State Colleges and Universities Athletic Association (SCUAA) Meet. It also donated the following equipment: 1 computer unit to the National Abaca Research Center; 1 unit, 2-door refrigerator and 1 unit electric typewriter to the ViSCA Manila Office.
- \* Ten key officers of the Philippine Council for Industry and Energy Research and Development (PCIERD) visited ViSCA on March 10, 1992 to explore some possible tie-ups with the College.
- \* A Memorandum of Agreement was signed between ViSCA and ViFARD on the commercialization of feeds from rootcrops under the ViSCA Pilot Feed Mill Project. The Feedmill was reopened on April 13, 1992 under the management of the ViSCA Foundation for Agricultural Research and Development Inc. (ViFARD). It continued to use root crops as substitutes for corn in feed formulation. Available feeds were as follows: hog starter, hog grower and hog finisher with 56 percent, 50 percent and 60 percent root crop substitution, respectively and broiler starter with 8 percent root crop substitution.
- \* ViSCA and the Department of Trade and Industry signed a Memorandum of Agreement regarding the use of ViSCA's feedmill technology.
- \* The Memorandum of Agreement was signed between the Department of Forestry in ViSCA and the National Network Committee on Tree Breeding and Propagation (NNCTBP) in promoting the sustainable management and development of the country's forest resources.
- \* A team of Regional Directors in Agriculture from Tanzania visited ViSCA's coconut research and development projects on August 22, 1992. Their visit was part of their nationwide orientation-tour to various coconut research centers of the country.



*ViSCA's delegates to the SCUAA Meet.*



*PCA visitors with RCRC Director, Dr. N.P. Pascual (2nd. from L).*



*Feedmill staff at work with ViFARD personnel as observers.*



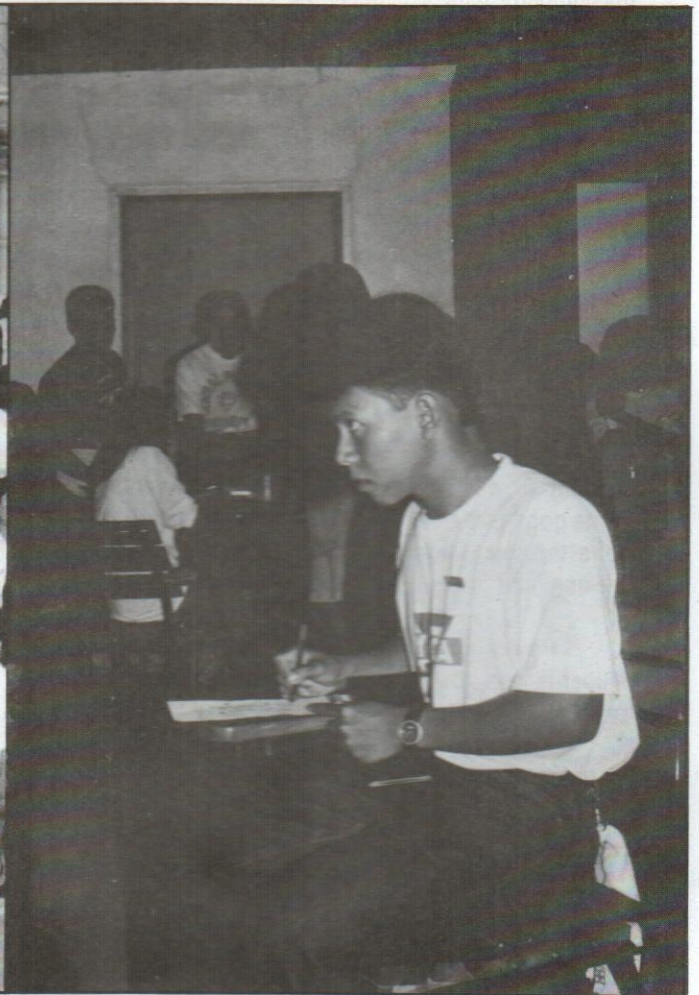
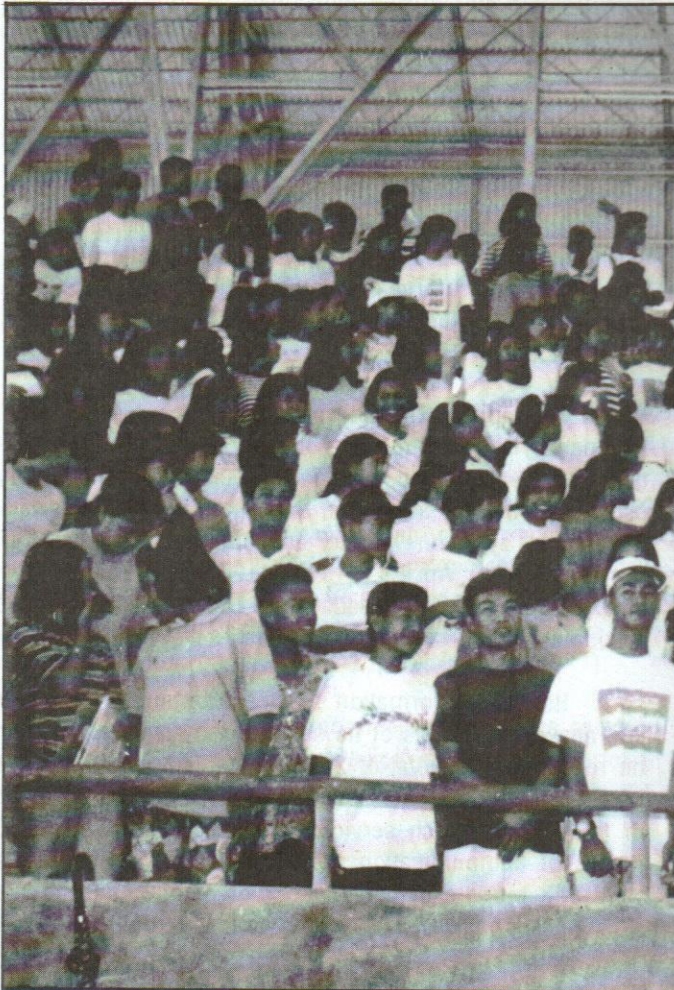
- \* The Leyte Youth Foundation for Charity Incorporated (LYFCI) in Baybay, Leyte availed of ViSCA's extra unit of vertical feed mixer. A Memorandum of Agreement was signed between ViSCA and the Municipality of Baybay stating that the vertical feed mixer was borrowed by the Baybay youth organization for them to establish a root crop-based feed mill in the municipality.
  - \* Dr. Kazuo Kawano, the concurrent Program Leader of the Centro Internacional de Agricultura Tropical's (CIAT) cassava program in Asia visited ViSCA's Philippine Root Crop Research and Training Center on September 23-25, 1992 to monitor and assess the progress of its cassava projects. Research collaboration with CIAT started since 1983.
  - \* An Enzymatic Laboratory was established at the Department of Plant Breeding and Agricultural Botany,
- in cooperation with the International Rice Research Center. In this collaboration, ViSCA provided the staff for the equipment.
  - \* Japanese representatives and Australian scientists visited ViSCA to explore possible linkages with the research programs of the College. They also visited some of ViSCA's cropping systems research sites.
  - \* ViSCA, through the Department of Agricultural Chemistry and Food Science established a collaborative research on peanut with the University of Georgia, USA.
  - \* AFP Commanding General for Region 8 visited ViSCA on December 11, 1992 to find out ViSCA's technologies that can be disseminated to the people in Samar using military personnel as extension workers.



*Enzymatic laboratory*



# AUXILIARY SERVICES



The Office of Student Affairs (OSA) and the Library are the two offices tasked with providing supplementary services to ViSCA's major programs.

The Office of Student Affairs is charged with the personal development of students through guidance and personnel services while the Library takes charge of providing resources to the programs of the College in instruction, research and extension.

## ACCOMPLISHMENTS

### Office of Student Affairs

#### I. Student Welfare Services

During the first semester of SY 1992-1993, 53.26% of the student population was accommodated in the dormitories. Repairs of student dormitories were done during the year.

#### II. Student Organizations and Activities

The development of the student to become a responsible and effective leaders and members of the society is the thrust of the section. Active involvement of students in their organizations enabled themselves to express their creativeness and develop them leadership potentials. During the year, a total of 39 student organizations were recognized by OSA which included: 1 College Supreme Student Council, 2 Class Organizations, 16 Course-Related Organizations, 14 Greek-Lettered Organizations, 5 Religious Organizations and 1 Socio-Civic Organizations. There were 298 approved and coordinated student activities of which 83 were on community service. Student organizations usually participate in the Annual Anniversary celebration of the College by putting-up their individual booths or a candidate to the "Miss ViSCA Quest."

During the ViSCA Anniversary, one of the Greek-Lettered Organizations, the Alpha Phi Omega International Fraternity/Sorority put up a candidate for the "Miss ViSCA Beauty Pageant."



### III. Recreation Program

The Recreation Center of the College provided the students with a wholesome and wise utilization of the students free time.

During the year, the students availed of the following recreational facilities: bowling, billiard, table tennis, dart, chess and chinese checkers. Most of the male students played billiard followed by bowling as the next priority.

### IV. Guidance Services

It is the responsibility of this section to assist students in coping with their problems and help them to adjust with their environment. During the year, the guidance services section conducted a Peer Facilitators' training to develop the potentials of students to become good leaders. Information dissemination was also done through the conduct of student orientation, job-seeking and career guidance seminars.

Psychological tests were administered to help students and job applicants in their decision-making process.

### V. Financial Assistance

The College through its ViSCASELF helped the students with financial problems. The students were allowed to loan for a maximum of P150.00. For the first time, the ViSCASELF granted a group loan to student organizations with a maximum amount of P5,000.00.

Another form of financial assistance extended to deserving students was the Student Assistantship Program in which students who did not avail of any grant were allowed to work on part-time jobs in various dormitories, offices, centers and departments.

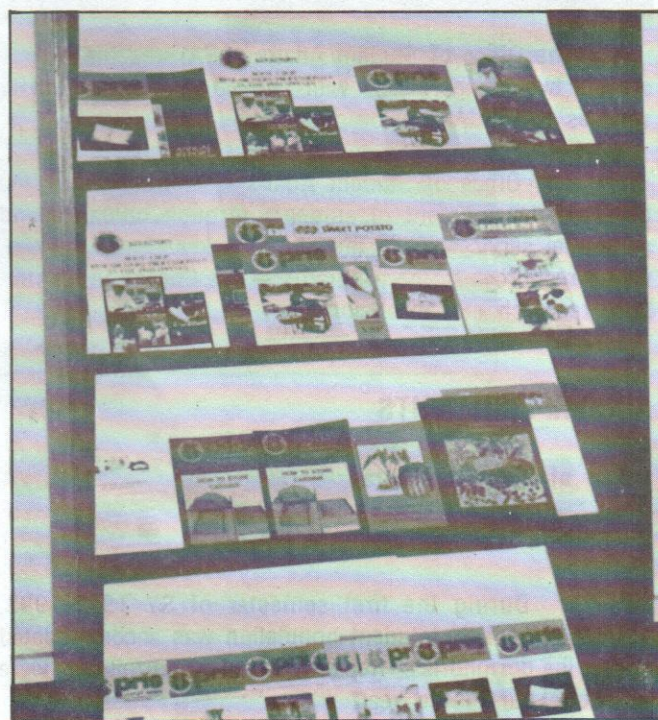
### Library

During the year, the Library inventory of books reached 44,841 volumes. Library acquisition for the year was reduced from 1,781 volumes in 1991 to only 679 volumes in 1992. The reduction and slow growth in its collection was due to financial constraints. Likewise, the Library grant from the ViSCA-GTZ Ecology Program was already depleted and only 46 new titles were added from this fund in 1992. In spite of these problems, the Library still continued to serve its readers. As of December 31, 1992, there were 86,729 readers from various agencies, neighboring schools and from the campus who availed of its services.

The Library received 105 journals from local and foreign subscription and also on exchange or complimentary basis. It also received donations from different agencies, organizations and private individuals. A total of 500 volumes of books and 14 cassette tapes were received from generous ViSCA alumni/research staff who donated their personal collections to the library. Other donors included the Freshmen Student Organization, Keith Moody of IRRI and some foreign and local institutions and organizations, namely; Asia Foundation, the Cornell International Institute for Food Agriculture and Development at Cornell University, Asian Vegetable Research and Development Center (AVRDC), the Department of Environment and Natural Resources (DENR), and the Australian Center for Publications Acquired for Development (ACPAD).

To improve the competency of the Library staff, attendance in trainings and the pursuit of advanced degrees were encouraged. During the year, one of the Library staff underwent a training in the Universiti Sains Malaysia, Penang, Malaysia on "Library and Information Centre Automation" from April 20 to May 22, 1992 which was supported by IDRC of Canada while two other staff pursued graduate studies in library science.

Its PRIS information services continued to update and answer the needs of its clientele regarding information on root crops. A total of 2,343 documents on root crops were stored in the databases and 321 users have availed of the on-line search service. It also disseminated 9,435 copies of communication materials on root crops. There were 533 reprints of papers on root crops and 14 titles of publications were distributed to the target clientele.



*PRIS publications*



# GENERAL ADMINISTRATION

The general administration provides support services for ViSCA's trilogy of functions; instruction, research and extension for agricultural and rural development. It included the Offices of the President, Vice President for Academic Affairs and Vice President for Administration, together with all offices under their area of supervision (Figure 1).

During the year, the aforementioned offices and the offices under their direct supervision continued to perform their specific functions to meet the goals and thrusts set by the College.

## ACCOMPLISHMENTS

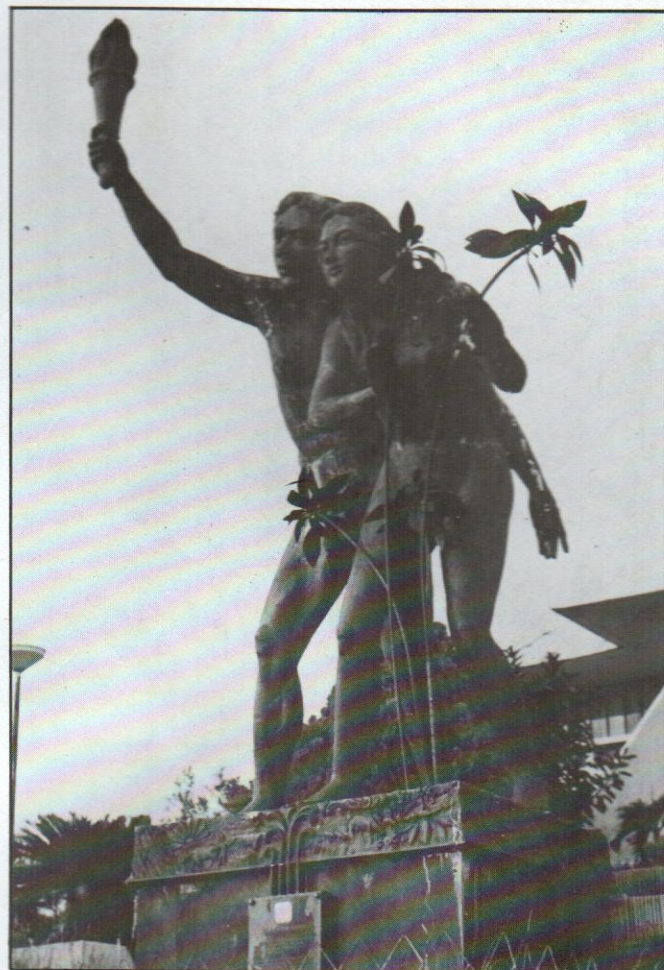
In line with the plans of ViSCA to become a university, the Board of Trustees approved the university proposal and endorsed it to the Regional Development Council for endorsement to the House of Congress. To improve the productivity of the academic staff, the Board of Trustees approved the proposed Performance Evaluation Systems Manual for Academic Staff (PESMAS).

During the year, the ViSCA administration received 6,638 visitors from all over the country and abroad.

Its liaison office in Manila assisted in strengthening ViSCA's linkages with the national and international agencies. Its Cebu Office also facilitated the purchases of supplies and materials needed by ViSCA. Furthermore, some equipment were purchased in Manila through the ViSCA Manila Office.

## Manpower Resources

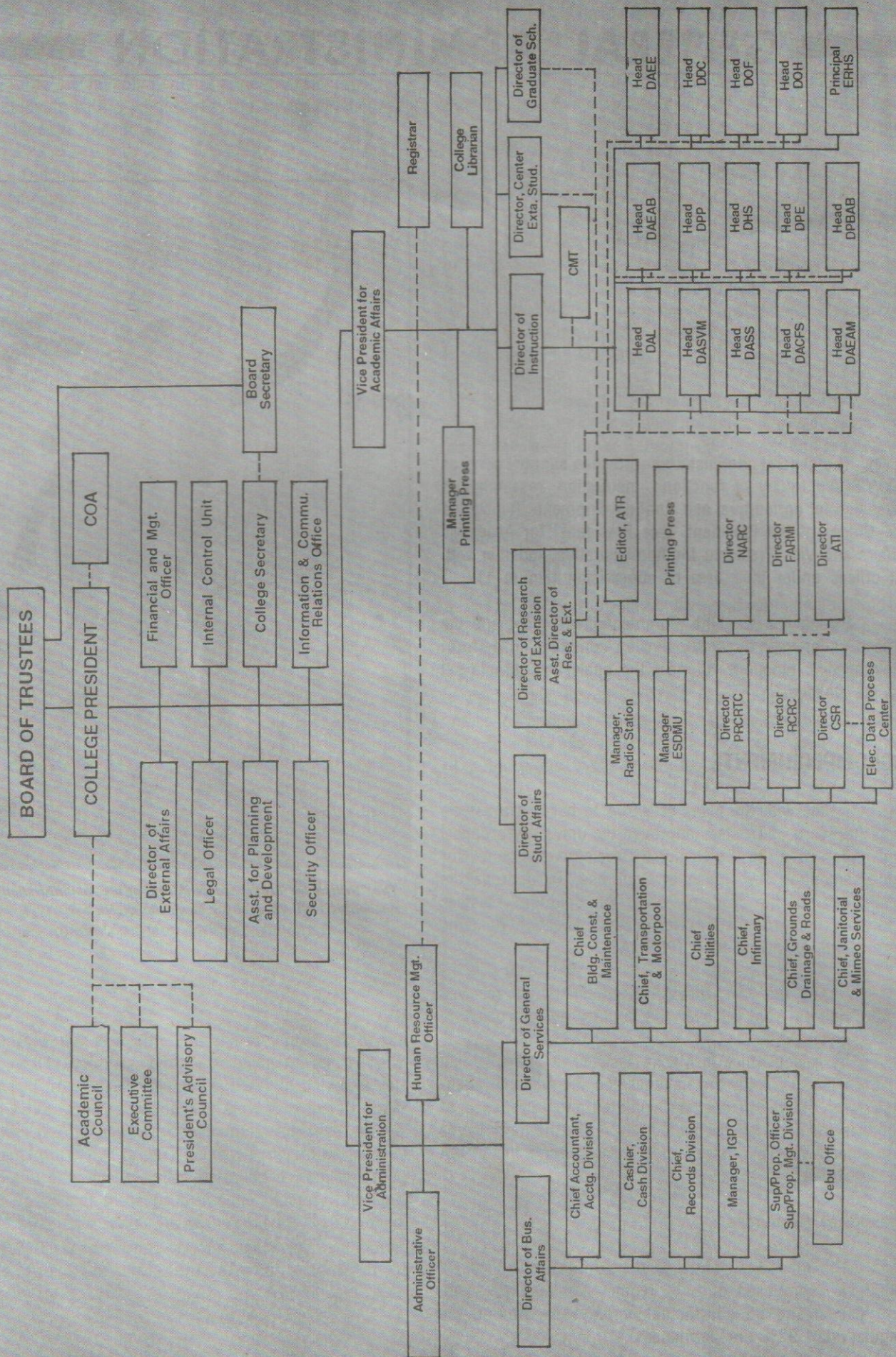
The total work force of the administration for CY 1992 was composed of 211 regular administrative staff, 511 casual and 83 contractual employees. Among the regular staff 92% are permanent.



*The "Search for Truth" statue in front of the Administration building symbolizes ViSCA's goal for academic excellence.*



Fig. 1 ORGANIZATIONAL CHART OF THE VISAYAS STATE COLLEGE OF AGRICULTURE, BAYBAY, LEYTE - 1992





During the year, the following academic staff were designated to various positions:

Dr. Manuel K. Palomar - Director, Graduate School  
Dr. Perla M. Tan - Director, Student Affairs  
Dr. Jose Bacusmo - Director, PRCRTC  
Dr. Dolores Alcober - Interim Director, FARM  
Dr. Rodolfo G. Escalada - Ad-Interim Head, Forestry  
Dr. Justiniano L. Seroy - Head, Dept.  
of Arts and Letters  
Dr. Ruben M. Gapasin - Head, Dept. of  
Plant Protection  
Dr. Thelma B. Zafra - Head, Dept. of  
Physical Education  
Dr. Angela A. Ferraren - Head, Dept. of Agron.  
& Soil Science.

### Staff Development

To update the knowledge of administrative staff and improve their competency in performing their specific functions, the administration encouraged the staff to attend trainings and seminar-workshops related to their job.

### Financial Resources

In 1992, the total amount collected from ViSCA's income generating projects was P 975,852.46 with P503,216.70 of it coming from the income of the ViSCA Pavillion (Table 9).

The total allotment for CY 1992 was P 85,438,700 with instruction services receiving the biggest portion (P 24,183,000), 28.30%. The total expenditures during the year amounted to P73,156,251.59 with an unexpended balance of P12,282,448.41. The allotment for foreign assisted projects in the amount of P4,697,000 (Table 10) was not spent during the year, because its release was received towards the end of the year.

The Comparative Data of ViSCA's Allotment, Expenditures and Balances for CY 1991 and 1992 showed that there was a 13.27% increase in ViSCA's allotment in 1992 (Table 10).

### Physical Resources and Development

#### a. Buildings

The following projects were completed during the year:

1. Construction of agro-reforestation building "C"
2. Expansion of Horticulture Laboratory
3. Fabrication and installation of roof framing system of Food Technology building.
4. Completion of Agri-Tech student dormitory

In addition, prebidding and bidding of the following projects were conducted:

1. ViSCA student dormitories
2. Completion of Food technology building
3. Repair of one unit of DPBAB greenhouse

Other physical improvements included the partitioning of IH building for graduate students and repair of two boys' dormitories; Zea Maize and Mahogany as well as five girls' cottages/dormitories; Calachuchi, Everlasting, Waling-waling, Sunflower and Sampaguita.



*IH building*



*Extension of the Horticulture laboratory*



The construction of the incubation and inoculation rooms in the tissue culture laboratory was completed and ten laboratory equipment were repaired. The water-powered stripping machine of the National Abaca Research Center was renovated.

Ongoing construction projects included the completion of the Food Technology Building, construction of Girls' Dorm, repair of DPBAB greenhouse and DOF nursery.

b. Transportation facilities

The College maintained in good running condition 53 vehicles which were used in official trips of ViSCA employees to various places in Visayas, Mindanao and Manila.

c. New Acquisition

Four IBM microcomputers with printers were acquired by the Department of Agricultural Engineering and Applied Mathematics for instructional use.

The Department of Plant Breeding and Agricultural Botany acquired a flame photometer, slide projector and screen, two air-conditioning units, a Honda generator and a lawn mower.

Health Services

The ViSCA Infirmary extended its health services to the dependents of the faculty and staff members and those people living in the neighboring barangays.

Prevention and control of communicable diseases were done through immunization, environmental sanitation and other preventive measures.



*Department of Agricultural Engineering and Applied Mathematics.*



Table 9. Sales of Income Generating Projects as of December 31, 1992.

Department/Office/Center Projects	Revolving Fund	Classification of Funds/Income General	Trust	Total
1. Animal Science & Veterinary Medicine				
a. Dairy Goat/Sheep		P 35,392.50		
b. Duck		7,102.00		
c. Rabbit		2,682.50		
d. Beef/Carabeef		no report		
e. Piggery	P 45,914.00			
f. Poultry	52,877.85			
2. Experimental Rural High School				
a. Rice Farm	44,953.90			
b. Seedbank A	6,751.00			
3. Forestry				
a. Forest By-Products		1,599.20		
4. Guest House				
a. Lodging		8,670.00		
b. Pavillion			503,216.70	
5. Home Science				
a. Toga Rentals		no report		
6. Horticulture				
a. Pomology		11,120.75		
b. Fruit Trees		11,598.25		
c. Vegetables & Floriculture		no report		
7. Infirmary				
a. Trust			29,200.80	
b. General		2,351.00		
8. Income Generating Projects Office				
a. ViSCA Market & Other Rented Facilities			73,717.00	
9. Library				
a. High School Fines		1,171.10		
b. College Fines		11,644.90		
c. Bindery			62,262.00	
10. National Abaca Research Center				
a. Abaca By-Products		no report		
11. Plant Breeding & Agricultural Botany				
a. Corn By-Products			28,330.05	
b. Sweet Potato By-Products			2,425.00	
12. Philippine Root Crop Research & Training Center				
a. Root Crops		21,537.46		
13. Regional Coconut Research Center				
a. Pineapple	11,334.50			
Total	P 161,831.25	P 114,869.66	P 699,151.55	P 975,852.46



Table 10. COMPARATIVE DATA OF VISCA'S ALLOTMENT, EXPENDITURES AND BALANCES FOR CY 1991 AND 1992.

Functions	Allotment		Expenditures		Balances	
	1991	1992	1991	1992	1991	1992
A. Instruction Services						
1. Advanced Education	3,194,000.00	3,969,000.00	3,194,000.00	3,969,000.00	0.00	0.00
2. Higher Education	13,894,000.00	17,890,000.00	13,894,000.00	17,890,000.00	0.00	0.00
3. Secondary Education	7,783,000.00	2,314,000.00	7,503,990.83	2,314,000.00	279,009.17	0.00
B. Research Services	16,242,000.00	16,524,000.00	16,242,000.00	14,393,935.37	0.00	2,130,064.63
C. Extension Services	2,326,000.00	3,464,000.00	2,326,000.00	2,659,118.94	0.00	804,881.06
D. Auxiliary Services	2,571,000.00	2,664,000.00	2,571,000.00	2,664,000.00	0.00	0.00
E. Gen. Adm. & Support Services	14,770,000.00	16,580,287.00	17,330,997.51	16,580,287.00	(2,560,997.51)	0.00
F. Adm. of Personnel Benefits	2,605,000.00	11,385,777.00	4,558,753.50	11,385,777.00	(1,953,753.50)	0.00
G. Salary Standardization	3,164,000.00	-	3,318,416.60	-	(154,416.00)	-
H. Custom Duties	-	33,636.00	-	33,636.00	-	0.00
I. Locally Funded Projects for Construction, Rehabilitation or Renovation of Buildings and Structures	6,609,000.00	5,662,000.00	7,843.33	1,013,972.28	6,601,156.67	4,648,027.72
J. Equipment Outlay	-	255,000.00	-	252,525.00	-	2,475.00
K. Foreign Assisted Projects	943,730.00	4,697,000.00	269,210.42	-	674,519.58	4,697,000.00
Total	74,101,730.00	85,438,700.00	71,216,211.59	73,156,251.59	2,895,518.41	12,282,448.41

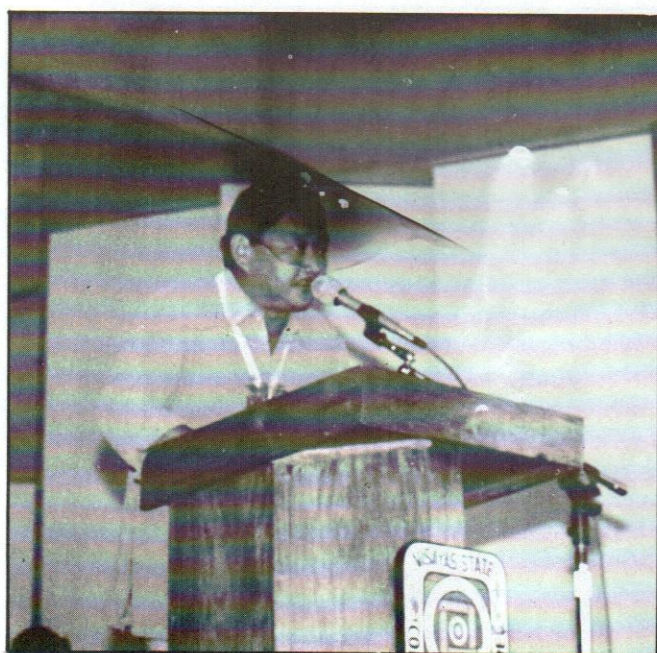
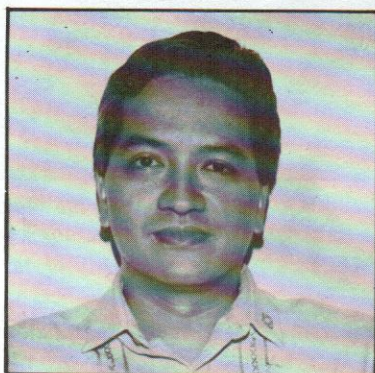


# MISCELLANEOUS

## Distinguished Speakers:

- \* Planning Secretary Cielito F. Habito, Director General of the National Economic and Development Authority (NEDA) was the guest speaker during the 40th Commencement Exercises of ViSCA.
- \* The Honorable Secretary Roberto S. Sebastian was the keynote speaker, during the 68th Anniversary Convocation. In his speech, he emphasized the balance between production and farmers' income.
- \* During the 11th Anniversary of the Center for Social Research, the former Secretary of the Department of Agrarian Reform and presently the Executive Director of "Kaisahan Tungo sa Kaunlaran ng Kanayunan at Repormang Pansakahan" (KAISAHAN), Atty. Florencio Abad served as the guest speaker during the occasion.

*Hon. Sec. Cielito F. Habito*



*Hon. Sec. Roberto S. Sebastian*

## Anniversary Awardees:

- \* During the 68th ViSCA Anniversary on July 31, 1992, various awards were given to the following:

### A. Sandigan Award

1. United Coconut Planters Bank (UCPB) - for being supportive of innovative approaches on the use of resources that will benefit the students, and for choosing ViSCA as the site of the UCPB Scholarship Grant.

### B. Mt. Pangasugan Award

1. Honorable Congressman Eriberto V. Loreto - for his continuing commitment to agricultural and rural development for the Visayas region and for being instrumental in the conversion of the Visayas Agricultural College into the Visayas State College of Agriculture and in establishing various national linkages for the College in his capacity as Mayor of Baybay and later as Congressman of Leyte.
2. Hon. Maria Clara L. Lobregat, chairman of the Philippine Coconut Producers Federation, Inc. (COCOFED) - for her dedication to ViSCA by sending COCOFED scholars to ViSCA resulting in the establishment of dormitories and other facilities in ViSCA which benefited the whole student populace.

### C. Distinguished Alumnus Award

- a. Research
  1. Dr. Florencio Saladaga of the Department of Plant Breeding - for excelling in research nationally and internationally in plant breeding with the production of sweet potato varieties relevant to development goals.
- b. Farming
  1. Mrs. Daprosa Caparoso Perez - for having been successful in farming.



c. Public Service

1. Mr. Enrico Paloma - for having served with distinction the public sector.

d. Agribusiness Management

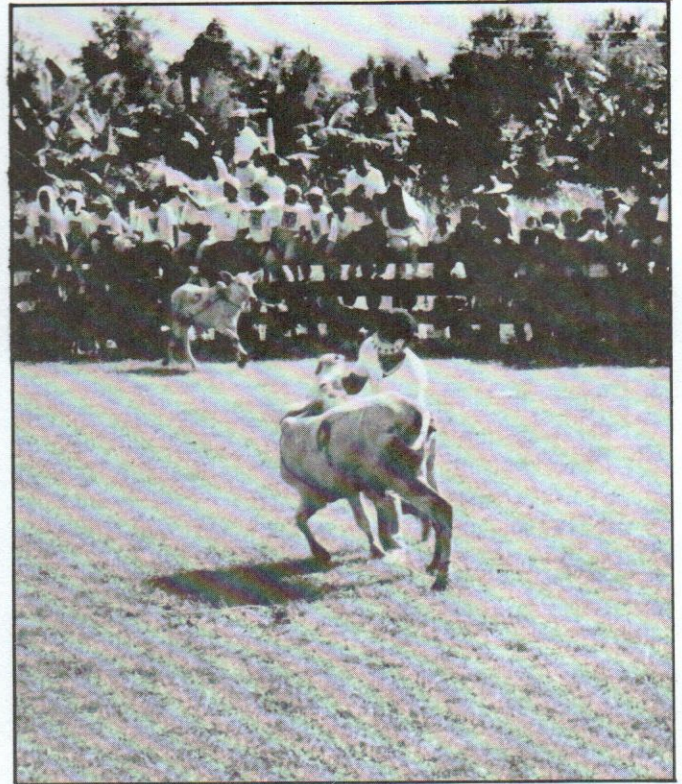
1. Mr. Osias B. Awit - for having obtained mastery in management principles and practices as well as gained managerial skills and expertise in agribusiness.

**Anniversary Winners:**

- \* A fourth year high school student, Ms. Darlyn Kristine Lauzon won the "Miss ViSCA" crown during the "1992 Miss ViSCA Beauty Pageant", one of the highlights of the 68th ViSCA Anniversary.
- \* The Future Farmers of the Philippines-Collegiate Chapter (FFPCC) won the "1992 Rodeo Competition" and its candidate Mhel de los Reyes was adjudged "Miss Rodeo 1992," another exciting event during the ViSCA Anniversary.

**Donations:**

- \* The Freshman Student Organization (FSO) donated textbooks for first year college students which amounted to P4,000 on August 20, 1992. The books included the following: Philippine Constitution, The Humanities, General Sociology, Introduction to Humanities, Freshmen Psychology, Plane and Spherical Trigonometry with Applications, and Analytic Geometry.



*Calf wrestling during the "1992 Rodeo Competition."*



*Miss ViSCA 1992 and her Court.*



### Environmental Concern:

- \* A memorandum from the Department of Forestry was circulated in October 1992 banning the cutting of bamboos and trees inside ViSCA to prevent the total destruction of the forest reservation.
- \* The tree planting activity was spearheaded by the Department of Forestry in cooperation with the ViSCA Environmental Awareness Movement (VEAM).

### Host in Seminars, Trainings and Conventions:

- \* Thirteen provincial participants from the different Provincial Technical Institutes of Agriculture (PTIAs) attended a two-week training course entitled, "Immersion Training on Root Crops: Economics of Production, Processing and Marketing" was held at ViSCA from April 26 to May 2, 1992. This was sponsored by the Philippine Root Crop Research and Training Center and the Agricultural Technology Education Project (ATEP). This activity was held for the purpose of teaching the participants on the different technologies on root crops production, processing and utilization.
- \* The Educational Development Project Implementing Task Force (EDPITAF) through its Agricultural Technology Education Project (ATEP) sponsored a seminar to train farm managers. The series was entitled "Moving and Learning Experience for Farm Manager". This was conducted at ViSCA on May 18-29, 1992.
- \* ViSCA hosted the consultation-conference on "The Role of State Colleges and Universities of Agriculture (SCUAs) in Agriculture Research and Extension from June 21 to 22, 1992 which was coordinated by the Philippine Institute of Development Studies (PIDS).
- \* ViSCA served as host to the silver anniversary celebration and annual convention of the Federation of Institutions for Marine and Freshwater Sciences (FIMFS) from October 19 to October 23, 1992.
- \* The Department of Physical Education initiated the first Regional Volleyball Officiating Clinic from September 24 to 26 1992 at the ViSCA Gymnasium. This was participated in by the 36 physical education teachers, volleyball coaches and officiating officials from the different government and private schools in Region VIII. Officials of the Philippine Amateur Volleyball Association (PAVA) served as resource persons with Mr. Gepuela, PAVA Vice-President and Chairman of the Rules of the Game Commission, talked on the different rules of the game. Mr. Cesar Franco, PAVA Director and Chairman of the Referees Commission talked on how to officiate the game.



*Faculty and staff participating in the college-wide Tree Planting activity*

The Farm and Resource Management Institute and the Office of the Director of Research and Extension sponsored a nine-day training-workshop on Participatory Rural Appraisal in Matalom, Leyte from November 13 to 21, 1992.

### Song Festival:

- \* The Second Developmental Song Festival known as "Bangga Sa Awit" was held on September 25, 1992 at the ViSCA gymnasium. This was co-sponsored by the Region Eight Applied Communication (REAC) Task Force of the Visayas Coordinated Agricultural Research Program (ViCARP), the ViSCA Environmental Awareness Movement (VEAM) and the ViSCA-GTZ Ecology Program. The songwriting competition was participated in by some 34 entries which were submitted by local composers from the provinces of Bohol, Cebu, Leyte and Samar. The songs carried with them messages for attitudinal change, value formation and techno-transfer. From the 34 entries, 12 were chosen to compete for the grand prize.

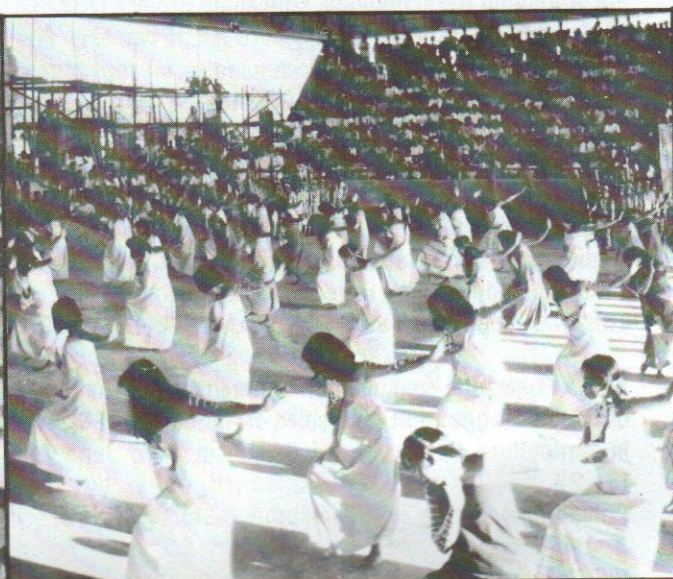


### Public Education:

- \* The Center for Social Research initiated the Mayoralty Candidates Forum on April 9, 1992 at the ViSCA gymnasium to give the electorates of Baybay better perspective of their choice for the mayoralty position on the May 11 elections and to give chance for the candidates to present their platforms of government.

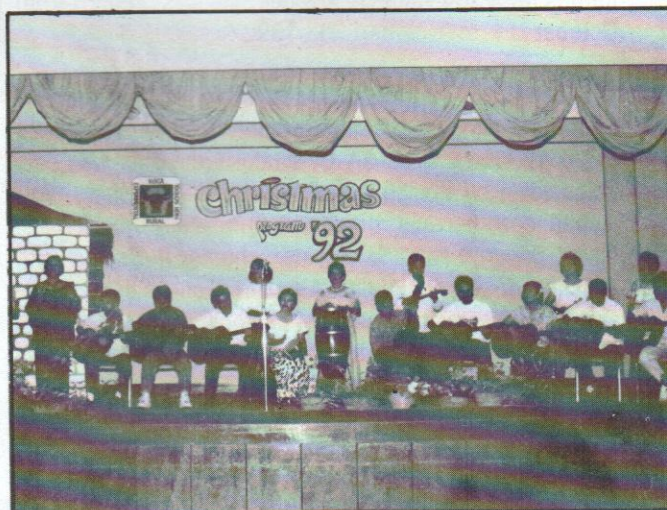
### Others:

- \* The Department of Agricultural Engineering and Applied Math celebrated its anniversary on February 6-7, 1992 with various academic and non-academic contests to enliven the affair.
- \* The Department of Physical Education celebrated its first anniversary on March 7-8, 1992 with its major attraction called "Hinugyaw", an Ilonggo term for merriment or festivity.



*Ethnic dance contest during the "Hinugyaw"*

- \* ViSCA's radio station DYAC celebrated its 10th Anniversary on August 27, 1992. It continued its function in delivering developmental information to farmers and their households.
- \* During the Third Anniversary Program of the ViSCA Environmental Awareness Movement (VEAM) on September 30, 1992, the Regional Executive Director Augustus L. Momongan of the Department of Environment and Natural Resources served as the guest speaker during the occasion.
- \* The ViSCA community held a series of Christmas parties in commemoration of the birth of Jesus. Various activities were undertaken during the month of December, such as literary musical show, beach parties, office gatherings and disco.



*A lively number from the ERHS faculty.*



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