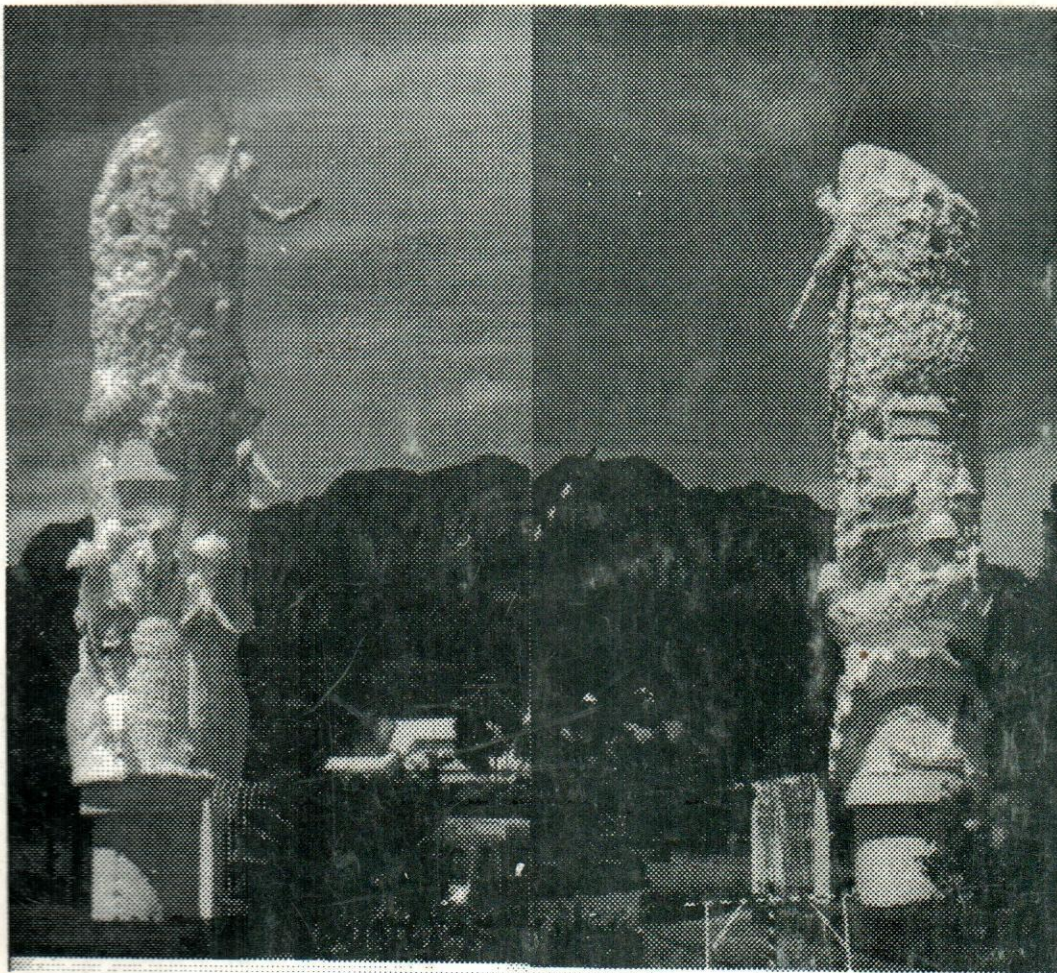




1995

ANNUAL REPORT



VISAYAS STATE COLLEGE OF AGRICULTURE
Baybay, Leyte
Philippines

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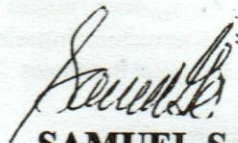


Foreword

The Visayas State College of Agriculture (ViSCA) views 1995 as another rewarding year for the College in terms of accomplishments related to instruction, research, extension and production projects as highlighted in this Annual Report. Attainment of institutional objectives that needed fund augmentation and outside assistance was made possible through the support of the Office of the President of the Philippines, Department of Budget and Management, Local Government Units in Region 8, other government agencies and non-government organizations.

The authority to use College income contributed to the improvement of College facilities. It also provided students with more opportunities to work especially during the Christmas break. The policy encourages school administrators to strengthen income generating projects for both instruction and production.

ViSCA's satisfying experiences in 1995 have encouraged the College Administration to strive for greater achievements in the coming years and push harder for curricular and program adjustments in response to new government policies. While gaining insights from past lessons, the College shall pursue with renewed vigor the fulfillment of its objectives for 1996.

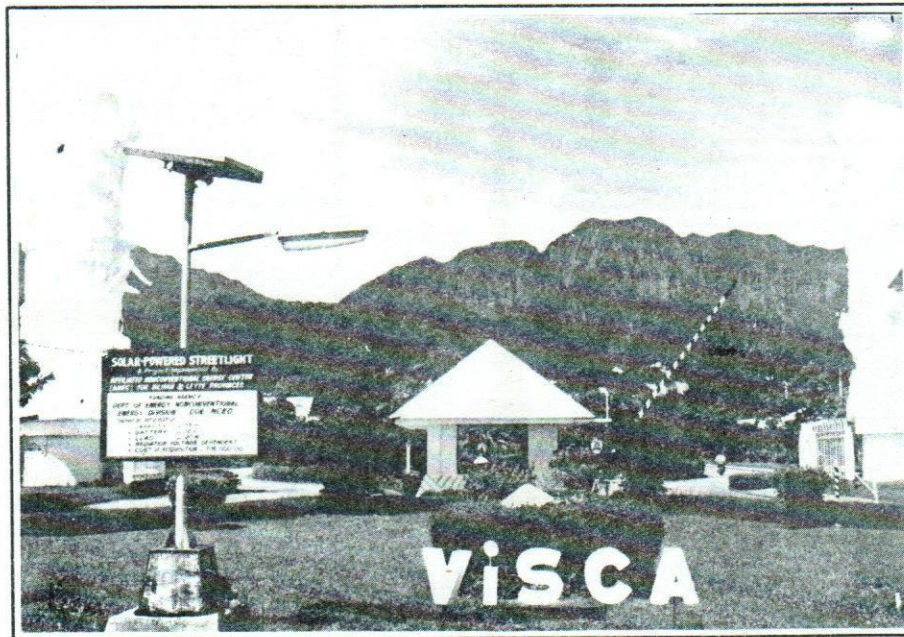

SAMUEL S. GO
President

Introduction

Brief History and Mission Statement

Starting as a provincial high school in 1924, the Visayas State College of Agriculture (VISCA) became a chartered institution on May 24, 1974 by virtue of P.D. No. 470. It has for its mission:

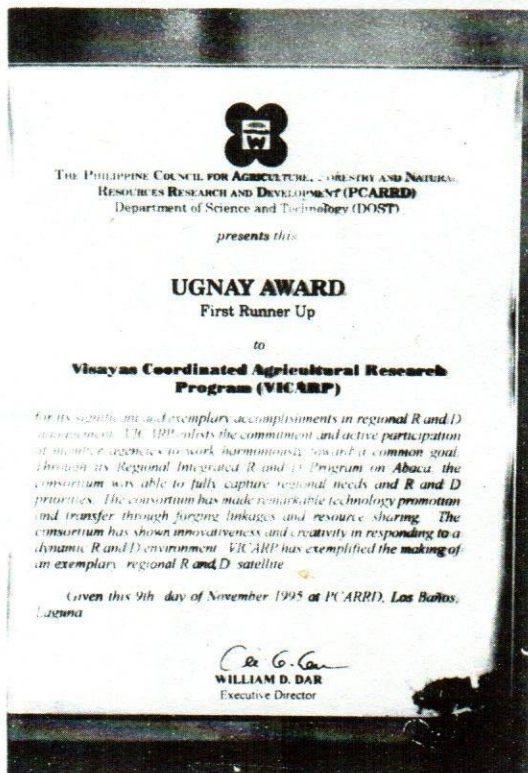
*Enhancement of the general well-being of the rural populace,
especially the disadvantaged sectors of the Visayas,
through effective instruction, research and
extension in agriculture and
rural development.*



Accomplishment Highlights

ViSCA's unceasing drive for excellence and relevance is manifested in the following accomplishments:

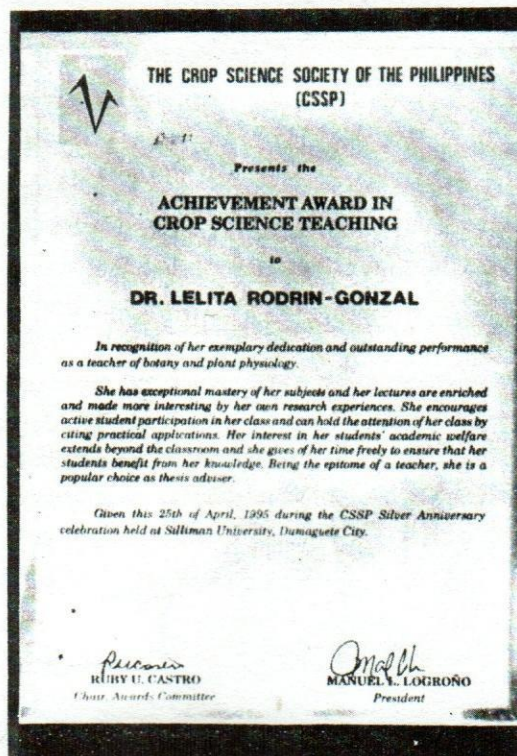
- The institution was cited as an outstanding regional performer by DECS Region 8 and was Awarded Certificates of Recognition for
 - academic excellence in agriculture and applied sciences
 - development communication through songs
 - fabrication of agricultural equipment/ implements



- The ViSCA-led Visayas Coordinated Agricultural Research Program (VICARP) was conferred the UGNAY AWARD - First Runner Up by the Philippine Council for Agriculture and Natural Resources Research and Development (PCARRD).

- ViSCA's Department of Forestry was recognized by the Professional Regulations Commission and the Society of Filipino Foresters, Inc. (Davao del Norte Chapter) as one of the TOP 5 FORESTRY SCHOOLS in the Philippines.

- one of the department's graduate, MR. DENNIS P. PEQUE, garnered 8th place in the 1995 Forester Licensure Examination.



- ViSCA Professor, DR. LELITA R. GONZAL, was recipient of the 1995 ACHIEVEMENT AWARD FOR TEACHING from the Crop Science Society of the Philippines.
- ViSCA ENGR. FELICIANO G. SINON, won second place in the 3rd Eastern Visayas Invention Contest for his invention of a Portable Engine-Powered Abaca Stripping Machine.

- Several ViSCA Faculty members also excelled in their respective fields of endeavor:

- *Prof. Felix M. Salas won the Outstanding Published Paper Award during the 17th Annual Scientific Meeting of the National Academy of Sciences.*
- *Dr. Roberta D. Lauzon was awarded the Best Paper on Grain Postharvest Technology during the 17th ASEAN Seminar held in Malaysia.*
- *Dr. Erlinda O. Landerito garnered the Poster Award during the 20th Annual Convention of the Philippine Society for Biochemistry and Molecular Biology (PSBMB).*

- ViSCA students also reaped awards for the school:

- *The ViSCA college student publication editorial staff were cited for having the Best Edited Magazine while garnering several other awards in the 3rd Regional Tertiary Sportswriting Schools Press Conference.*
- *Loida S. Moreno and Allis V. Arcay won the Best Undergraduate Thesis awards in Plant Pathology and Weed Science, respectively, in a national competition among state universities and colleges.*

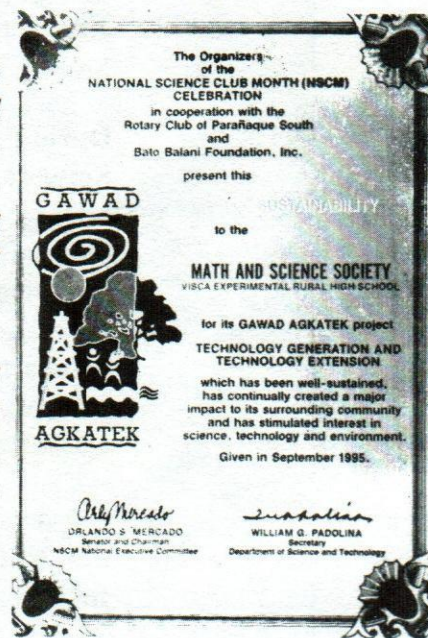
- *The trio of P. Noriel, J. Dumaguing and D. B. Gerona of the ViSCA Laboratory High School (VLHS) won FIRST PLACE during the 1995 Regional SIBOL sponsored by the Department of Science and Technology (DOST).*

- *Another VLHS trio composed of T. Alkuino, M. Batoy and M. J. Palomar garnered FIRST PLACE in the Regional Search for THE OUTSTANDING YOUTH SCIENCE RESEARCHERS (TOYS).*

- *M. Gonzal, R. Amar, M. Batoy, R. Nuevo and M. Villamayor won FIRST PLACE during the U.P. Sidlangan Quiz Show in Tacloban City.*

- *Evert Don Canada, another VLHS student won FIRST PLACE in the feed formulation and extemporaneous speaking contests during the FFP-FAHP-FFPCC National Work Conference.*

- *The VLHS's Math and Science Club received the Award of Sustainability for its Gawad AGKATEK project on Technology Generation.*



Instruction

Objective: To produce high and middle-level quality manpower in agriculture and allied fields to serve the development needs of the Visayas.



Curricular Programs and Enrolment Trends

During the year, Ph.D. programs in Horticulture and Animal Science were approved while the Forest Ranger Certificate course was phased out. Various undergraduate curricula also underwent revision for strengthening and streamlining of course offerings as well as for the integration of mandated general education courses and such vital issues as values education, gender and development concerns, cooperativism, campus life program, population education and sustainable agriculture.

Total enrolment during the First Semester, SY 1995-96 was 3,429 (Table 1), of which 35.1% were male and 64.1% were female. The students' geographical distribution is as follows: 77.6% from Eastern Visayas; 8.5% from Central Visayas, 5.9% from Western Visayas, 0.8% from Luzon, 7.1% from Mindanao and 0.1% from foreign countries.

Table 1. Comparative data on student enrolment, 1st Sem. 1994-95 and 1st Sem. 1995-96.

Degree Program	First Semester SY 1994-95	First Semester SY 1995-96	Percent Increase/ (Decrease)
1. Graduate Program			
Doctor of Philosophy	7	7	0
Master of Science	110	94	(14.5)
Master of Ag. Dev.	226	251	11.1
Diploma in Agriculture	3	2	(33.3)
Unclassified	17	96	464.7
<i>Sub-total</i>	<u>363</u>	<u>450</u>	<u>24.0</u>
2. Undergraduate Degree Program			
DV Medicine	1	6	500.0
B.S. Agriculture	476	424	(10.9)
B.S. Ag. Education	215	273	27.0
B.S. Ag. Development	151	163	7.9
B.S. Home Economics	156	232	48.7
B.S. Dev. Communication	111	107	(3.6)
B.S. Ag. Engineering	149	149	0
B.S. Agribusiness	285	315	10.5
Bachelor of An. Science	291	358	23.0
B.S. Ag. Chemistry	38	35	(7.9)
B.S. Food Technology	68	101	48.5
B.S. Statistics	102	89	(12.7)
B.S. Forestry	263	255	(3.0)
<i>Sub-total</i>	<u>2,306</u>	<u>2,507</u>	<u>8.7</u>
3. Non-Degree Program			
Forest Ranger Certificate	111	39	(64.9)
Home Economics Technician	60	63	5.0
Unclassified	7	9	28.6
<i>Sub-total</i>	<u>178</u>	<u>111</u>	<u>(37.6)</u>
4. Secondary Education Program			
First Year	103	103	0
Second Year	95	90	(5.3)
Third Year	81	91	12.3
Fourth Year	78	77	(1.3)
<i>Sub-total</i>	<u>357</u>	<u>361</u>	<u>1.1</u>
GRAND TOTAL	3,204	3,429	7.0

Faculty Profile and Development

ViSCA has a total faculty strength of 263. Fifty seven of whom are detailed in various research and administration offices. During the year, 8 new instructors were appointed while 7 new Ph.D. holders have returned from their studies. Table 2 summarizes the faculty profile of ViSCA.

Table 2. Total number of faculty by department and highest degree earned.				
Department/ Center/ Office	Highest Degree Earned			Total
	Baccalaureate	Masteral	Doctoral	
1. Academic Department				
DAC-FS	1	5	7	13
DAEA	1	9	4	14
DAEAM	5	12	4	21
DAEE	0	5	7	12
DAL	3	7	5	15
DASS	2	10	5	17
DASVM	2	6	7	15
DDC	1	2	3	6
DHS	0	6	3	9
DOF	5	3	2	10
DOH	2	5	5	12
DPBAB	3	5	2	10
DPE	3	4	0	7
DPP	3	7	9	19
VLHS	7	16	3	26
Sub-total	38	102	66	206
2. Research Center				
PRCRTC	1	12	8	21
NARC	4	0	1	5
RCRC	1	4	0	5
FARMI	1	3	2	6
CSR	4	3	6	13
Sub-total	11	22	17	50
3. Other Offices				
ODREx	1	2	0	3
VICARP	0	1	0	1
OSA	0	1	0	1
EDPC	0	1	0	1
LUPDU	1	0	0	1
Sub-total	2	5	0	7
GRAND TOTAL	51	129	83	263*

* Data included 39 faculty members on leave (29 study leave with pay; 5 study leave without pay; 5 on sabbatical leave)

Student Scholarships/Financial Assistantships

A total of 117 College students were scholars (Table 3) while 497 others were enjoying various forms of assistantships/grants-in-aid (Table 4).

Table 3. College Students Enjoying Scholarships Funded by ViSCA and Other Agencies By Course, First Semester 1995-96.

Degree Course	Total Course Enrolment	TYPE OF SCHOLARSHIP *					TOTAL	Percent of Total Course Enrolment
		Full	Partial	HS	ACES	Others		
BSA	424	3	11	0	0	9	23	5.4
BSAgEd	273	0	4	5	0	2	11	4.0
BSAgDev	163	0	0	1	0	3	4	2.4
BSHE	232	0	3	1	0	2	6	2.6
BSDC	107	1	2	4	1	0	8	7.5
BSAE	149	0	3	1	0	0	4	2.7
BSAB	315	0	8	5	0	7	20	6.3
BAS	358	2	3	2	0	5	12	3.4
BSAC	35	0	3	1	0	0	4	11.4
BSFT	101	1	4	1	0	2	8	7.9
BSS	89	2	6	2	0	2	12	13.5
BSF	255	0	2	1	0	1	4	1.6
DVM	6	0	0	0	0	0	0	0
FRC	39	0	0	0	0	0	0	0
HET	63	0	0	0	0	0	0	0
4th HS	77	0	0	0	0	1	1	1.3
TOTAL	2,686	9	49	24	1	34	117	4.4
% of Total		7.7	41.8	20.5	0.9	29.1	100.0	

*HS - Honorific Scholarship

VFS - ViSCA Full Scholarship

ACES - Advanced Credit for Exceptional Students

Others : ViSCA Student Emergency Loan Fund (ViSCASELF), Department of Science & Technology (DOST), Shoushi Yoshida Memorial Scholarship (SYMS), Philippine Agriculture & Resources Research Foundation, Inc.(PARRFI), College Assurance Plan (CAP), ViSCA Student Scholarship Foundation, Inc.(VISSFI), VISSFI/GTZ Work Grant, Ormoc Rotary Club (ORC), Weed Science Society of the Philippines (WSSP)

Table 4. College Students Enjoying ViSCA Funded Grants-in-Aid by Course, First Semester 1995-96.

Degree Course	Total Course Enrolment	TYPE OF VISCA GRANTS-IN-AID										TOTAL	% of Total Course Enrolment
		AGA	AGB	DTG	VG	BG	IG	ROTC	VSDG	SB	SK		
BSA	424	6	3	0	4	0	3	1	17	33	27	94	22.2
BSAgEd	273	12	2	0	1	0	8	0	3	19	10	55	20.1
BSAgDev	163	0	0	0	1	0	0	1	16	16	7	26	16.0
BSHE	232	2	0	2	1	0	3	0	7	14	10	39	16.8
BSDC	107	1	0	1	0	3	1	2	2	6	8	24	22.4
BSAE	149	2	0	0	0	0	1	2	0	7	10	22	14.8
BSAB	315	1	0	3	5	1	6	0	12	30	23	81	25.7
BAS	358	4	0	2	3	0	4	2	17	11	11	54	15.1
BSAC	35	1	0	0	0	0	2	1	1	0	1	6	17.1
BSFT	101	4	0	0	0	0	1	0	7	5	3	20	19.8
BSS	89	2	1	2	1	1	0	0	4	6	2	19	21.3
BSF	255	2	0	0	4	0	0	3	5	15	16	45	17.6
DVM	6	0	0	0	0	0	0	0	1	0	0	1	16.6
FRC	39	0	0	0	1	0	0	1	0	0	0	2	5.1
HET	63	0	0	0	0	0	0	0	4	3	1	8	12.7
Unclas.	9	0	0	0	0	0	0	0	1	0	0	1	11.1
TOTAL	2,618	37	6	10	21	5	29	13	82	165	129	497	19.0
% of Total		7.4	1.2	2.0	4.2	1.0	5.8	2.6	16.5	33.2	26.0	100	

* AGA - Academic Grant A
 AGB - Academic Grant B
 DTG - Dance Troupe Grant
 VG - Varsity Grant
 BG - Beauty Grant

IG - Income Grant
 ROTC - Reserve Officers Training Course
 VSDG - ViSCA Staff Dependent Grant
 SB - Sangguniang Bayan
 SK - Sangguniang Kabataan

Student Housing and Recreational Facilities

Fifty percent (50%) of College students were accommodated in the 17 student dormitories/cottages (Table 5) while the other 50% found bedspaces among ViSCA staff houses and in private cottages in nearby barangays.

Table 5. Status of Occupancy of Dormitories/Cottages of College Students, 1st Semester SY 1995-96.		
Kind of Dormitory/ Cottage	No. of Occupants	Capacity (Bedspace)
A. Ladies Dorm/Cottage:		
1. Bougainvillea Cottage	27	24
2. Calachuchi Dormitory	57	56
3. Daisy Cottage	15	12
4. Everlasting Dormitory	56	56
5. Ilang-ilang Dormitory	138	144
6. Magnolia Ladies Home	67	60
7. Mariposa Ladies Home	68	60
8. Rosal Cottage	18	18
9. Sampaguita Ladies Hall	278	272
10. Sunflower Dormitory	74	78
11. Waling-waling Ladies Home	60	62
Sub-total	858	842
B. Men's Dorm/Cottage:		
1. Lauan Cottage	20	16
2. Mahogany Men's Hall	118	110
3. Molave Men's Hall	67	60
4. Mulberry Men's Hall	79	60
5. Narra Cottage	35	26
6. Zea Maize Men's Hall	127	116
Sub-total	446	398
Total No. of students accommodated	1,304	1,240
Total college enrolment:	2,609	
Percentage of students accommodated: 50.00%		

Student Organizations and Co-curricular Activities

During the year, a total of 38 student organizations were granted permit to operate (Table 6) and conduct wholesome activities on campus.

Scholastic Performance and Graduation Data

Two hundred sixty nine (269) College students were conferred their respective degrees, 9 of whom were recipient of Latin honors. There were also 35 graduates from the Masteral program, 31 from the Non-Degree program and 77 from the high school curriculum.

Table 6. Number of recognized student organizations by classification for SY 1995-96.

CLASSIFICATION	NO. OF ORGANIZATION
College Supreme Student Council (CSSC)	1
Course-Related Organizations	16
Religious Organizations	4
Greek Lettered Organizations	12
Class-Related Organizations	2
Regional/Institutional Organizations	3
TOTAL	38

Table 7. Comparison of Graduates for the School Year 1994-95 and School Year 1995-96.

Degree Program	School Year 1994-95	School Year 1995-96	Percent Increase (Decrease)
1. Graduate Program			
Doctor of Philosophy	-	-	-
Master of Science	11	11	0
Master of Ag. Dev.	18	23	27.8
Diploma in Agriculture	3	1	(66.6)
<i>Sub-total</i>	32	35	9.4
2. Undergraduate Degree Program			
B.S. Agriculture	45	63	40.0
B.S. Ag. Education	32	23	(28.1)
B.S. Ag. Development	18	40	122.2
B.S. Home Economics	19	24	26.3
B.S. Dev. Communication	5	6	20.0
B.S. Ag. Engineering	13	6	(53.8)
B.S. Agribusiness	35	24	(31.4)
Bachelor of An. Science	27	31	14.8
B.S. Ag. Chemistry	1	6	500.0
B.S. Food Technology	4	6	50.0
B.S. Statistics	11	4	(63.6)
B.S. Forestry	59	36	(39.0)
DV Medicine	-	-	-
<i>Sub-total</i>	269	269	0
3. Non-Degree Program			
Forest Ranger Certificate	12	16	33.3
Home Economics Technician	24	15	(37.5)
<i>Sub-total</i>	36	31	(13.9)
4. Secondary Education Program			
Ag. Science Curriculum	76	77	1.3
<i>Sub-total</i>	76	77	1.3
GRAND TOTAL	413	412	(0.2)

Research

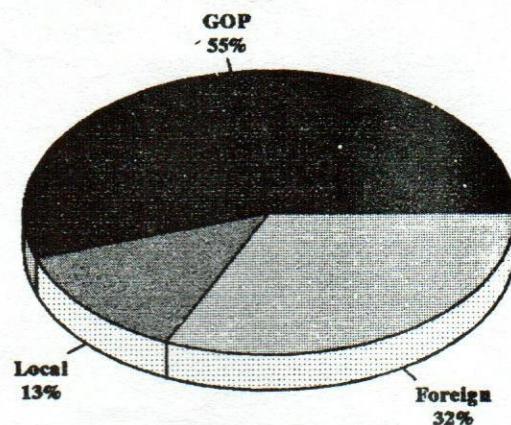
Objective: To generate agricultural production and processing technologies adaptable to small farms and conduct studies for effective policy formulation and management of rural development programs.

Projects and Funding Sources

A total of 182 on-going and 12 new research studies were implemented during the year (Table 8) with funding from various government agencies and foreign institutions (Table 9). Seventy eight (78) of these studies were completed/terminated during the year.

Table 8. Research studies implemented in CY 1995.

Commodity	Number of Studies			
	On-going	New	Total	Completed
Rootcrops	67	4	71	32
Abaca and Fiber Crops	16	-	16	4
Coconut and Palm Oil	14	-	14	4
Farming Systems	20	-	20	2
Rice, Corn and Cereals	12	5	17	2
Ecosystems	13	1	14	12
Vegetables	8	1	9	4
Livestock	4	-	4	4
Forage/Pasture	4	-	4	-
Socioeconomic/Sociology	4	1	5	3
Soil and Water Resources	6	-	6	1
Ag. Engineering	2	-	2	2
Forestry	4	-	4	2
Fruits & Fruit Trees	3	-	3	2
Fisheries	1	-	1	1
Others	4	-	4	3
TOTAL	182	12	194	78



1995 R and D Budget by Source of Funds

Table 9. ViSCA's R & D budget and source of funds (CY 1995).

Source	Amount (P)	Percent (%)
I. GOP/ViSCA (direct cost)	10,199,142	100.0
II. Local		
DOST	545,626	22.6
FARMI Trust	1,282,724	53.0
NRCP	100,000	4.1
PCA	117,425	4.9
PCARRD	42,250	1.7
PCIERD	148,433	6.1
PHILRICE	182,750	7.6
Sub-total	2,419,208	100.0
III. Foreign		
ACIAR	1,324,600	22.0
CIIFAD	655,290	10.9
GTZ	3,198,868	53.0
IFS	40,000	0.6
NRI-SAPPRAD	70,000	1.2
Univ. of Reading	163,487	2.7
UPWARD	371,713	6.2
USAID	204,132	3.4
Sub-total	6,028,090	100.0
GRAND TOTAL	18,646,440	

Research Breakthrough and Significant Findings

From the 78 completed/terminated studies and some of the continuing studies, the following technologies and/or significant findings were generated:

Technologies for Dissemination

1. Portable abaca spindle stripping machine
2. Lady finger and buttons (from cassava flour)
3. Mass production of *Amblyseus longispinosus*

Information for Dissemination

1. Distal eyebuds as better source of planting materials

2. Intercropping abaca with established fruit trees
3. Promising companion crops for abaca at its early stage of growth
4. Lines resistant to pests and diseases
5. Corn hybrids suitable to ViSCA conditions
6. White corn germplasm collection in ViSCA
7. White corn cultivars resistant to stalk rot
8. White corn line/cultivar resistant to corn borer
9. Breeding lines VRi 14 and VRi 15
10. Enzymatic characteristics of Lubang Red
11. Coconut cultivars
12. Plant characters and processes that are maternally influenced
13. Morphological characters of hermaphrodites
14. Improved emasculation technique
15. The effect of different light intensity in *B. laevis*

16. Major soil types in the uplands
17. Alayon system - a tool to soil and water conservation and agroforestry project
18. Adoption of FSDP-EV introduced technologies and farming practices in Matalom, Leyte
19. Forage/pasture species adaptable to Region 8
20. Potential grasses and legume forages
21. Postharvest losses of major fruits and vegetables
22. Efficacy of "Panyawan" against *H. contortus*
23. Procedure/solvent system developed to extract bioactive components of "Libas"
24. Agroclimatic data in Region 8
25. Country pigs that perform better under farm-level management
26. Raising country pigs
27. Production performance of F1 of Poll Dorset x Philippine Sheep
28. Indigenous sheep raising
29. Characteristics of root crop accessions
30. Availability of rootcrop germplasm materials at PRCRTC
31. Genetic resources data
32. Community-based sweetpotato genebanking and distribution system
33. Potential sweetpotato clones with specific processing qualities
34. Yield decreases for rootcrops with soil nutrient depletion
35. Types of sweetpotato root system
36. Process of making the rootcrop products
37. Virus incidence and transmissions in the sweetpotato germplasm field
38. 13b Tres Colores, VSP-2 and OPS 100 clones resistant to scab (wet season)
39. NGOs/POs participation in reforestation
40. Instruction, research and extension interface: going beyond pretesting and evaluation
41. Social impact data on agroforestry projects
42. Changes, strengths and weaknesses of devolution
43. Effectiveness of chemical pesticides against insect pest of solanaceous vegetables and their effects on the natural enemies
44. Entomophthoralean species

Technologies for Generation

1. Promising abaca accessions
2. Mitotic and meiotic behavior of abaca hybrids
3. Promising abaca accessions suited for pulp and paper and for handicraft industry
4. Abaca varieties with good fiber qualities
5. High yielding and pest resistant abaca varieties
6. Promising abaca hybrids
7. Techniques for production of planting materials and conservation
8. Abaca with creeping legumes under coconut
9. Fusarium wilt control
10. Portable moisture meter for abaca fiber
11. Portable tensile strength meter for abaca fiber
12. Improved white corn cultivar
13. Mycoparasites for biocontrol of corn rust
14. Fertilizer and lime application to sustain soil productivity
15. Breeding lines for upland rice
16. Coconut husk-ammonium sulfate fertilizer combination for banana
17. Improved direct-type copra dryer
18. Recommended cultural management practices for dwarf coconuts
19. Typhoon-tolerant coconut cultivars/hybrids
20. RCRC-developed coconut hybrids
21. Bio-intensive gardening under a forest ecosystem
22. Fertilization and weeding upland rice in acid soils
23. Farmer's indigenous crop-fallow system in sustaining crop productivity
24. Crop-livestock diversification
25. Forage legume in crop rotation system
26. Forage for acid uplands
27. Appropriate water shed management
28. Germination techniques for pioneer/native tree species
29. Establishment and cultural techniques for forest tree and fuel wood
30. Techniques for establishment of Dipterocarp species as shade in parks

31. Propagation of breadfruit and "Pili" by tissue culture
32. Herbal anthelmintics
33. In vitro selection techniques for drought and acid tolerance of sweetpotato
34. Erosion control strategies for cassava grown in hilly areas
35. Growing sweetpotato under coconut
36. Rootcrop food/snack products
37. Concentrate, root mix, yoghurt and chocolate products from sweetpotato
38. Rootcrops chip dryer and rootcrops washer/peeler
39. Dehydrated food products from rootcrops and coconut
40. Combined grinder-finisher
41. Adapted varieties of solanaceous vegetables in Eastern Visayas
42. Biological control of arthropod pests of vegetables crops

Technologies for Verification

1. Coconut-based cropping systems
2. Promising coconut hybrids
3. RCRC-developed coconut hybrids
4. Precocious macapuno-bearing palms
5. Legumes as hedgerow under acid soil condition
6. "Hapi-hapi" as a method of controlling Imperata
7. Agroclimatic information system (AIS)
8. Herbal drugs against coryza
9. High yielding cassava varieties: CMP 21-15, CMP 62-15, SM9772-20, RAYONG-40
10. Slow growth techniques for in-vitro storage of rootcrop germplasm
11. Micropropagation technique for pilot production of planting materials of Kinampay
12. Combination agrowaste and solar dryer
13. *Amblyseus longispinosus* for the control of cassava spider mite
14. Disease control in yam during storage
15. Promising varieties of stringbeans and bushbeans
16. Village level evaporative cooler for fresh vegetables

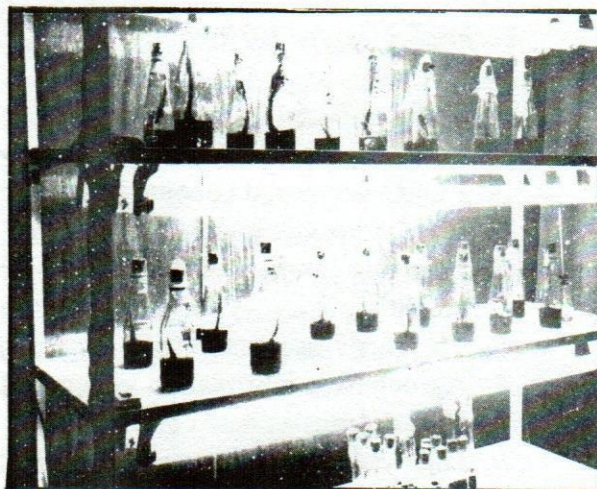
Potential Technologies

1. Tools and implements for minimum tillage
2. New corn variety
3. Use of P in peanuts
4. Recommended planting depth for coconut in hilly areas
5. Optimum level of defoliation of coconut
6. Use of NRMIS
7. Upland rice relayed with forage legumes
8. Forage grass/legumes as hedgerow species
9. Potting media for forest trees and fuelwood
10. Appropriate high diversity forest farming system
11. Local plants with anthelmintic value
12. High yielding, mites and insect resistant cassava hybrids, low HCN and high dry matter content
13. Sweet potato breeding lines with potential processing characteristics - sweetpotato improved varieties
14. Gabi breeding lines with good characteristics
15. Fermented beverage, pickles and other fermented products from rootcrops
16. Control of leaf blight pathogens using microbial antagonist
17. Plant extracts against fungal diseases
18. *P. lilacinus* Ormoc isolate against root-knot nematodes
19. Optimum fertilizer rate of tomato

R & D Awards and Recognition

ViSCA's research and development endeavors reaped several awards, namely:

- * **UGNAY AWARD** - First Runner Up awarded by PCARRD for the ViSCA-led Visayas Coordinated Agricultural Research Program (VICARP) for its significant and exemplary accomplishments in regional R and D management.
- * **Plaque of Recognition** awarded by the CHED for the VICARP-RCTU Project "Bangga sa Awit" which utilizes songs for technology transfer and fostering values education.
- * **Best Research Award - 2nd Prize** awarded by PCARRD to the study "A Survey and Identification of Hermaphrodite Flower in Local Coconut Cultivars". The same study was earlier judged as the Outstanding Basic Research (Silver Category) at the Regional Level.
- * **Outstanding Applied Research Award (Silver Category)** given to the study "Formulation, Optimization, Quality Enhancement and Technology Transfer of Cassava Lady Finger/Buttons".
- * **Award of Recognition** given by the DOST to Engr. Feliciano G. Sinon of the National Abaca Research Center (NARC) for his invention of a Portable Engine-Powered Abaca Stripping Machine.
- * **Best Research Award** given by the Philippine Society of Animal Science (PSAS) to Dr. Tomas J. Fernandez for his study "Anthelmintic Value of *Tinospora rumphii*".



Tissue culture of macapuno adds more prospects for the coconut industry.

Extension

Objective: To provide the small Visayan farmers and their families the opportunity to acquire knowledge and skills for the improvement of their farm productivity and their well-being.

Technology Commercialization

Established commercialization projects in Regions 7, 8 & 10 (Table 10).

Table 10. List of Technologies/Products for Commercialization and their Respective Adoptors.		
TECHNOLOGIES/ PRODUCTS	ADOPTORS	PROJECT SITE
Root Crop Production and Processing		
Feedmilling/Livestock Production	BMPC	Bontoc, So. Leyte
	BPC	Biliran Province
	FC	Borongan, E. Samar
	FC	Placer, Surigao Norte
	FFM	Lagonglong, Mis. Or.
Starch/Industrial Production	MARCA-	Hindang, Leyte
	RCPC	
	LGU	Camotes, Cebu
	LGU	Pinabacdao, E. Samar
	FC	Butuan City
	AIFMPC	Sn. Francisco, Surigao Norte
	MARPAI	Mainit, Surigao Norte
	GNMC	Dinagat Is., Surigao Norte
	Gosung Foods	Tanuan, Leyte
	CASALFAT	Tanuan, Leyte
Food Production	SMPC	Silago, So. Leyte
	BIRPA	Baybay, Leyte
	GWA	Baybay, Leyte
	Women's Asso.	Baybay, Leyte
	URIVIC	Ormoc City
	SJWA	Sogod, So. Leyte
Soy Sauce	ALEA (WA)	Inopacan, Leyte
	FFM	Dongon, Maasin, So. Leyte

Trainings and Non-formal Education

Conducted different types of training (Table 11) and distributed 6,167 publications to farmers, technicians, visitors, researchers, rural women, out-of-school youth, government employees, coop members and private individuals.

Table 11. Trainings conducted in 1995.			
Title of Training	Implementing/ Cooperating Agency	Place/Date Conducted	Clientele
Rainforestation	MPSAP/VRSAP-CSR/ VISCA/GTZ	Marcos, Baybay, Leyte <i>Feb. 23, 1995</i>	Farmers & Brgy. Officials
		Pangasugan, Baybay <i>March 11, 1995</i>	Farmers & Brgy. Officials
		Patag, Baybay <i>April 1, 1995</i>	Farmers & Brgy. Officials
		Villa Solidaridad, Baybay, Leyte <i>Sept. 15, 1995</i>	Farmer Cooperators
		Gabas, Baybay, Leyte <i>December 6, 1995</i>	Farmers
Sustainable Upland Farming thru Agro-forestry	DOF/ODREX	DOF VISCA <i>Dec. 21-22, 1995</i>	Farmers
Ornamental/Cutflower/ Vegetable Production	MPSAP-CSR/DOH VISCA/GTZ	ViSCA, Baybay, Leyte <i>August 30, 1995</i>	Project Cooperators
	DOH-VISCA	DOH, ViSCA <i>Jan. 17, 1995</i>	Students/Staff & Housewives
		<i>Feb. 23-24, 1995</i>	Students & Faculty
		<i>March 10, 1995</i>	Students & Faculty
		-	Pupils & Teachers
		-	Students & Teachers
Financial Analysis of Cutflower Production	DOH/GTZ	DOH, ViSCA <i>August 31, 1995</i>	Housewives
	DOH, ViSCA, PICHE	Isabel Leyte <i>August 19, 1995</i>	PHILPHOS/DA Employees
	DAEA/DTI, So. Leyte ODREX, ViSCA	ViSCA <i>March 6-7, 1995</i>	Cutflower Producers in Leyte & So. Leyte
Nursery Management Training	VRSAP-CSR/ DOH, ViSCA	Villa, Baybay, Leyte <i>Nov. 21-25, 1995</i>	Farmer Cooperators

Table 11. Continued...

Title of Training	Implementing/ Cooperating Agency	Place/Date Conducted	Clientele
Abaca Nursery/Plantation Establishment, Production, Postharvest Processing, By-product Utilization	NARC	ATI, VISCA <i>Jan 30-Feb 3, 1995</i> <i>March 27-31, 1995</i>	Farmer Cooperators Farmers/Rural Women Technicians
		<i>May 29-June 2, 1995</i> <i>August 7, 1995</i> <i>Aug. 8-9, 1995 &</i> <i>Nov. 6-10, 1995</i>	Technicians Farmer Cooperators/Technicians Abaca Farmers/Entrepreneurs/Technicians
		Ormoc City <i>March 6-10, 1995</i>	Entrepreneurs/Women
		St. Bernard, So. Leyte <i>July 5-7, 1995</i> <i>Sept. 7-11, 1995</i> <i>Nov. 15-16, 1995</i>	Farmer Cooperators Farmer Cooperators Abaca Farmers/ Technicians
		Libagon, So. Leyte	Farmer Cooperators/ Technicians
		Sn. Francisco, So. Leyte <i>Nov. 27-29, 1995</i>	Farmers/LGUs/Rural Women
Cassava Production and Processing	PRCRTC	PRCRTC	Farmers, Housewives Teachers, Researchers/ LGUs/Extension Workers
		MPSAP-CSR/ DAC-FS/ VISCA-GTZ/ PRCRTC	Project Cooperators
Sweet Potato Production, Processing & Utilization	PRCRTC	PRCRTC	Farmers, Housewives, Teachers, Extension Workers, Researchers, LGUs, Gov't Employees Processors, Entrepreneurs
Orientation on Root Crop Technologies	PRCRTC	PRCRTC	Farmers, Housewives, Teachers, Researchers, Exten. Workers, Gov't Employees, Officials, Students
Design and Fabrication of Rootcrop Chipping Machine	PRCRTC	PRCRTC	Teacher

Table 11. Continued...

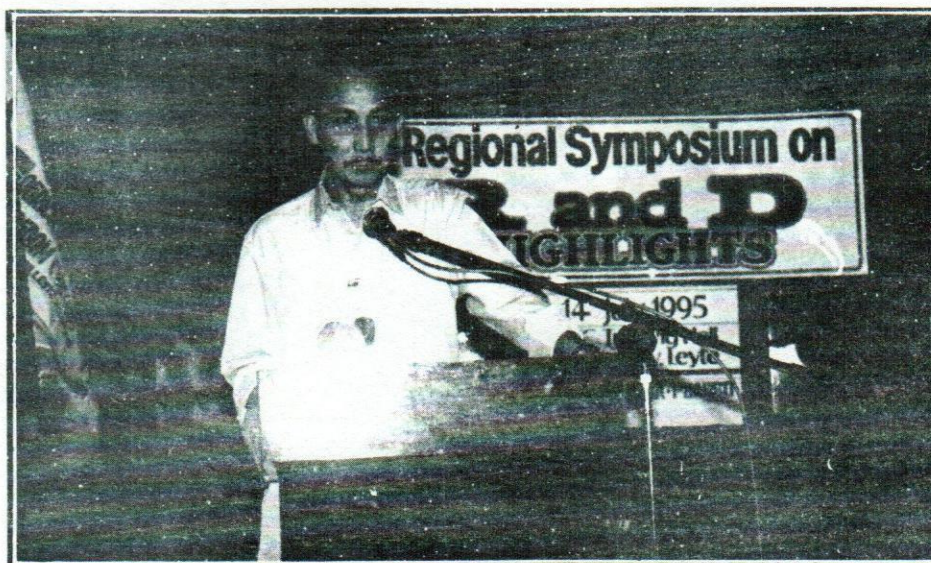
Title of Training	Implementing/ Cooperating Agency	Place/Date Conducted	Clientele
International Training on Conservation of Vegetatively Propagated Crops	PRCRTC	PRCRTC	Teachers/Researchers Exten. workers/LGUs
Training on Hedgerows Development	DASS/FARMI, VISCA WELFARE & LGUs	Matalom and Inopacan, Leyte <i>Aug. 25-26, 1995</i>	Farmers
Training on Cattle - Fattening Technology	CSR/DASVM, VISCA	Basud, San Isidro, Leyte <i>March 13-15, 1995</i>	Farmers' Association members
Handicraft Training	MPSAP-CSR/TEP VISCA-GTZ	Guadalupe, Baybay <i>April 22-23 1995 & Nov. 26-29, 1995</i>	Housewives
Management Scheme	MPSAP-CSR/DAC-FS, VISCA-GTZ/PRCRTC	VISCA, Baybay <i>May 1, 1995</i>	GWA members
Coop Development Training	CSR/DAEA	Kabalasan, Baybay <i>Dec. 12, 1995</i>	Farmers/Housewives
Pre-membership Seminar	MPSAP-CSR/TEP VISCA-GTZ	Guadalupe, Baybay <i>Nov. 16-17, 1995</i>	Project Cooperators
Values Orientation/ Reorientation	VRSAP-CSR, LGU, Project Cooperators	Villa, Baybay <i>Oct. 25, 1995</i> Mailhi, Baybay <i>Nov. 17, 1995</i>	Farmers Cooperators Project Cooperators
	MPSAP-CSR/TEP VISCA, GTZ	Guadalupe, Baybay <i>May 25, 1995</i>	Farmers/Fishermen/ Housewives/Barangay Leaders
Leadership Training	VRSAP-CSR	Villa, Baybay <i>Nov. 3, 1995</i> Mailhi, Baybay <i>Nov. 18, 1995</i>	Farmer Cooperators Project Cooperators
Training on Extension	CSR/DAEE	Kabalasan & Mahayahay, Baybay <i>June - Dec. 1995</i>	VISCA Student interns
Computer Operation & Photography	PRCRTC	PRCRTC, VISCA	Teachers/Researchers/ Exten. Workers, LGUs

Table 11. Continued...

Title of Training	Implementing/ Cooperating Agency	Place/Date Conducted	Clientele
Farm Record Keeping/ Bookkeeping, Accounting and Auditing Procedures	CSR/DAEA, ViSCA	San Isidro, Leyte <i>July 7-8, 1995</i>	Farmers' Association
	MPSAP-CSR/ ViSCA-GTZ TEP	Marcos, Baybay <i>Aug. 2, 1995</i>	Project Cooperators
		Guadalupe, Baybay <i>Nov. 26-29, 1995</i>	Project Cooperators
	VRSAP-CSR/ DAEA/ ViSCA	Villa, Baybay <i>Nov. 28-29, 1995</i>	Farmer Cooperators
	DAEA/GTZ/Villa Cooperative	Villa, Baybay	Coop. members
	DAEA/ODREX/ St. Bernard Coop.	St. Bernard So. Leyte <i>Feb. 17, 1995</i>	Farmers

Linkages

Implementation of ViSCA's program in CY 1995 were also assisted by the different collaborating and cooperating agencies/institutions from which assistance were either in the form of financial support, equipment, staff development, exchange of technology information, educational travel grant and project coordination.



PCARRD Executive Director William D. Dar expresses delight over R & D accomplishments

International

1. Australian Centre for International Agricultural Research (ACIAR)
2. Asian Development Bank (ADB)
3. Centro Internacional de Agricultura Tropical (CIAT)
4. Centro Internacional de Mejoramiento de Maiz y Trigo (CYMMYT)
5. Centro Internacional de la Papa (CIP)
6. Cornell International Institute for Food, Agriculture and Development (CIIFAD)
7. Cornell University (CU)
8. Deutsche Gesellschaft für Technische (GTZ)
9. Food and Agriculture Organization of the United Nations (FAO)
10. International Development Research Centre (IDRC)
11. International Foundation for Science (IFS)
12. International Network on Soil Fertility and Sustainable Rice Farming (INSURF)
13. International Plant Genetic Resources Institute (IPGRI)
14. International Rice Research Institute (IRRI)
15. Mie University, Japan
16. Natural Resource Institute - Southeast Asian Program for Potato Research and Development (NRI-SAPPRAD)

17. Oxford Forestry Institute (OFI)
18. Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA)
19. Southeast Asian Regional Forage Seeds Development (SEARFSP)
20. User's Perspective with Agricultural Research and Development (UPWARD)
21. University of Georgia (UGA)
22. University of Reading, Netherlands
23. Winrock International (WINROCK)
22. National Research Council of the Philippines (NRC)
23. Office of Energy Affairs - Non-conventional Research Division (OEA-NCRD)
24. Office of the Municipal Agriculturist (OMA)
25. Office of Provincial Agriculturist (OPA - Leyte, So. Leyte, Samar and Biliran)
26. Philippine Carabao Center (PCC)
27. Philippine Coconut Research and Development Foundation (PCRDF)
28. Philippine Council for Agriculture, Forestry and Natural Resources Research and Development (PCARRD)
29. Philippine Council for Industry and Energy Research and Development (PCIERD)
30. Philippine National Oil Company (PNOC)
31. Philippine Rice Research Institute (PhilRice)
32. Philippine Seedboard (PSB)

National/Local

1. Commission on Higher Education (CHED)
2. Department of Agriculture (DA)
3. Department of Agrarian Reform (DAR)
4. Department of Education, Culture and Sports (DECS)
5. Department of Environment and Natural Resources (DENR)
6. Department of Energy (DOE)
7. Department of Health (DOH)
8. Department of Local Government (DLG)
9. Department of Science and Technology (DOST)
10. Department of Social Welfare and Development (DSWD)
11. Department of Trade and Industry (DTI)
12. Fiber Development Authority (FIDA)
13. Farming Systems Development Project for Eastern Visayas (FSDP-EV Trust)
14. Farming Systems and Soil Research Institute (FSSRI)
15. Institute of Plant Breeding (IPB)
16. Land Bank of the Philippines (LB)
17. Local Government Units (LGUs)
18. National Economic and Development Authority (NEDA)
19. National Irrigation Administration (NIA)
20. National Nutrition Council (NNC)
21. National Postharvest Institute for Research and Extension (NAPHIRE)

Others

1. Diocese of Maasin
2. Eastern Samar State College (ESSC)
3. Isabel National Agricultural and Vocational School (INAVS)
4. Parish Pastoral Council for Responsible Voting (PPCRV)
5. Ruperto K. Kangleon Memorial Agro-Fishery Technical Institute (RKKMAFTI)
6. San Isidro Agro-Industrial School (SIAIS)
7. Southern Leyte State College of Science and Technology (SLSCST)
8. Tiburcio Tancinco Memorial Institute of Science and Technology (TTMIST)

Auxiliary and Support Services

Library Services

- * acquired 1,355 new books bringing to a total of 48,077 volumes of books at the library
- * acquired the following audio-visual materials
 - * *The 1995 Grolier Multimedia Encyclopedia*
 - * *The 1995 Encyclopedia Britannica*
 - * *The 1995 Compton's Interaction Encyclopedia*
 - * *Mammals*
 - * *Atlas (World and USA)*
 - * *AGRICOLA 1971 thru 1975*
 - * *TROPAG & RURAL 1995*
 - * *Career Training for the Hospitality Industry (5 volumes)*
 - * *Biology Videocassettes (Mitosis and Meiosis)*
 - * *Filipiniana Slides (3 sets)*
- * acquired 62 sets Micro-computers which provided each workstations a bibliographic access and control
- * continued inputting into the database "CATALO" and established new bibliographic database "COMPLE"
- * established a national network of 14 cooperating institutions, research centers and state universities and colleges through the Philippine Root Crops Information Service (PRIS)
- * introduced students to the use of CD-ROM, and allowed its utilization on AGRICOLA (Agricultural On-Line Access) for research works.

Health Services

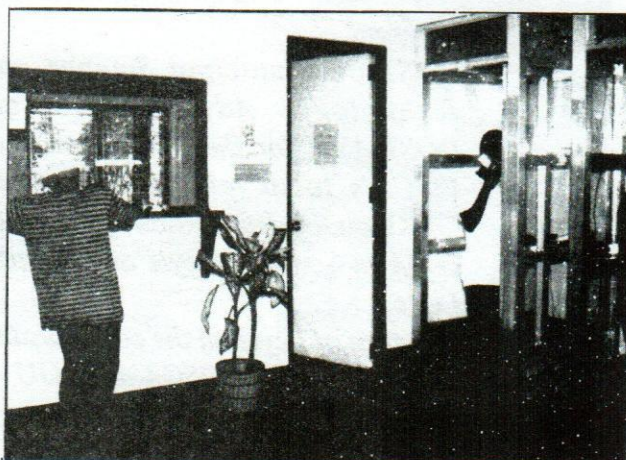
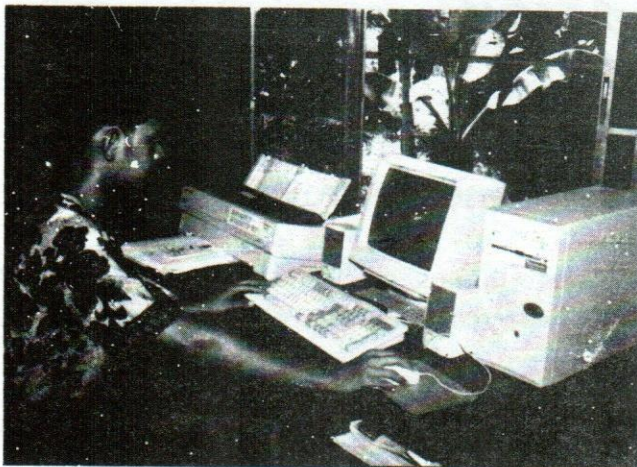
- * extended medical services to 8,486 patients, 4,389 of whom are from out-patient/in- patient consultations; 3,889 from physical examinations; and 208, immunization against tetanus, polio, measles, DPT, Hipatitis B and BCG.
- * conducted 1,771 laboratory analyses and extended dental services to 3,875 patients

Student Welfare and Guidance Services

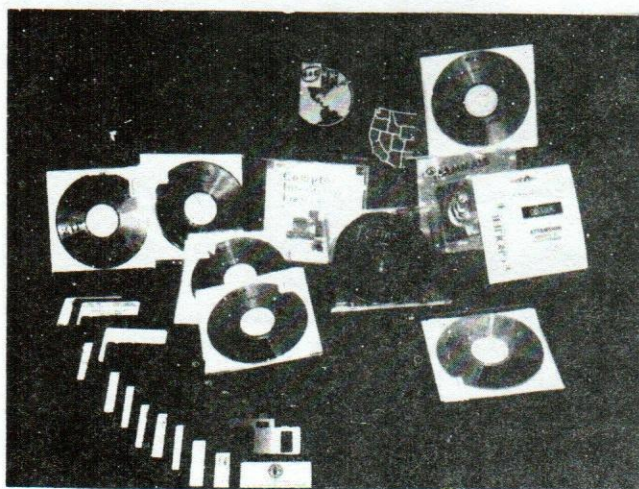
- * recognized 38 student organizations and supervised a total of 310 student activities on such areas as educational and sports development and community service
- * conducted repair/improvement of dormitories and recreational facilities and opened the Fast Food Center
- * conducted psychological tests and counselling services

Other Services and Facilities

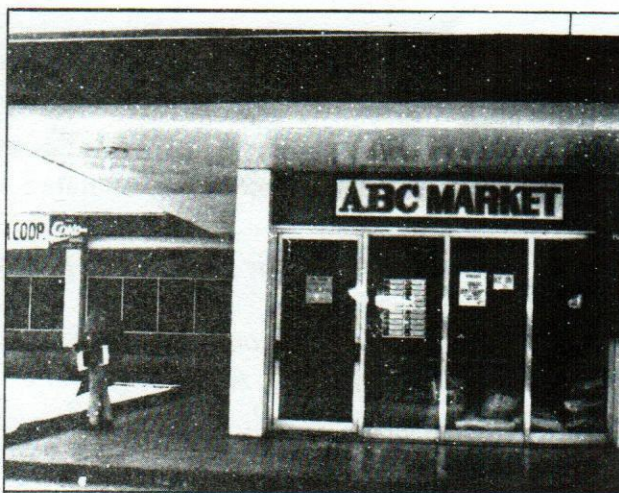
- * opening of a Public Calling Office of the Eastern Visayas Telephone Company (EVTELCO) at the ViSCA Market
- * established the Agribusiness Commodity Market (ABC) and effected a centralized marketing of ViSCA products



Public calling station



Library acquisitions



ViSCA product marketing center

General Administration

Linkages

Joint undertakings were established with the following agencies:

- * *ACIAR, NAPHIRE, and PhilRice*
- * *Universitas Kristen Satya Wasana*
- * *CIIF*
- * *PCRDF on the Macapuno Propagation and Commercialization Program*
- * *DOST on Municipal Science and Technology Advisory Program*
- * *DOST-ASTI for the establishment of ViSCA's local telephone network*
- * *DILG on the designation of ViSCA as ILGA in Southern Leyte and Western Leyte*
- * *Province of Leyte on the collaborative activities between ViSCA and LGU*
- * *EVTELCO on establishment of a public calling station at the ViSCA campus*

Management Policies

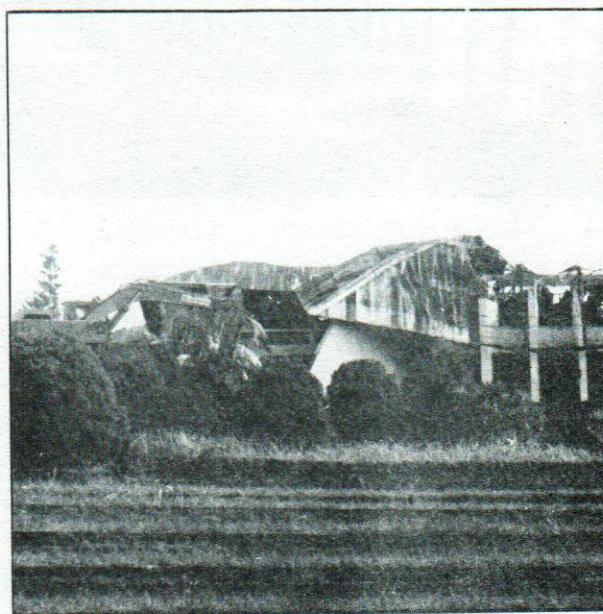
Management policies were refined and appropriate guidelines were formulated to:

- * *improve income generating projects and activities*
- * *improve operation of auxiliary services*
- * *centralize the marketing of ViSCA products*
- * *facilitate the procurement of supplies through the ViSCA Supply Deposit*

Infrastructure Projects

The following infrastructure projects were implemented during the year:

- * *Sea wall construction and road cementing from the ATI Building to the ViSCA Hostel*
- * *Renovation of the ViSCA Pavilion*
- * *Repair of some offices and academic department buildings*
- * *Reconstruction of the ViSCA Administration Building*
- * *Construction of the ViSCA Girls' Dorm - Phase II*



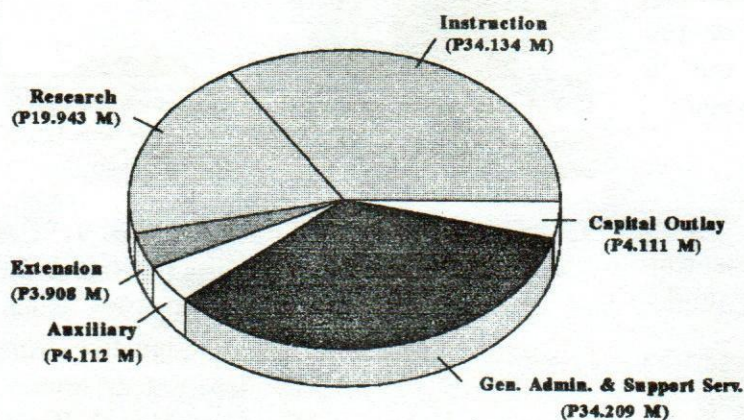
Start of the reconstruction of the Administration Building

Financial Resources

ViSCA's total appropriation amounted to P100,417,000.00, broken down as follows:

Instruction P 34,134,000
Advance Education
Higher Education
Secondary Education

Research 19,943,000
 Extension 3,908,000
 Auxiliary 4,112,000
 General Administration
 & Support Services 34,209,000
 Capital Outlay 4,111,000



ViSCA's 1995 total appropriation.

In addition, ViSCA received the following supplemental allocations from:

DBM

- * P 4.74 M - from the MPBF to augment the financial deficiency for casual and contractual employees
- * P 3.00 M - from the calamity fund for the reconstruction of the ViSCA Administration building
- * P 7,669,926 - from the COAF for NCC 74, PIB and YEB deficiency
- * P 1,730,580 - from MPBF for NCC 69
- * P 3,571,672 - from FAPS for BIDANI & ViSCA-GTZ Ecology Project
- * P 441,228 - from SUCs faculty Development Fund
- * P 2,585,602 - from General Fund adjustment for the use of income

GSIS

- * P 8.27 M - from the GSIS, Property Replacement Fund for the reconstruction of Administration building

Miscellaneous

* Dr. Cres Chan-Gonzaga, President of the Leyte Normal University, was guest speaker during the 16th Honors and Awards Convocation on 7 February 1995 at the ViSCA Social Hall in which ViSCA awarded 87 honorees (6 of them were graduate students).

* The Farm and Resource Management Institute of ViSCA hosted the International Training Course on Participatory Research with Farmers in Feed Resources from July 10 to 22, 1995. Fourteen researchers from the People's Republic of China, Indonesia, Laos PDR, Malaysia, Philippines, Thailand and Vietnam honed their skills in facilitating farmers' active participation in the development of technologies and to understand and manage pasture as a multi-purpose crop.

* His Excellency President Fidel V. Ramos visited ViSCA on July 17, 1995 together with 15 key government officials.



His Excellency President Fidel V. Ramos receives warm welcome from officials of Baybay and ViSCA

* Secretary William G. Padolina, as guest speaker during ViSCA's 71st Anniversary Convocation on July 31, 1995, emphasized cooperation among government and non-government institutions for the attainment of objectives for Philippines 2000.



Dr. Alicia S. Go of DAL receives the Outstanding Academician Award from DOST Secretary William G. Padolina during the Anniversary Convocation

* One of the highlights of the ViSCA Anniversary Celebration was the Search for Miss ViSCA 1995 on July 30, 1995 which drew participation of 8 representatives from different organizations, departments, centers, and cooperatives. Miss Mary Jane D. Barte, a senior BS Statistics student from the Department of Agricultural Engineering and Applied Mathematics, was crowned "Miss ViSCA".

DYAC featured in its 13th Anniversary the graduation of its "School-On-the Air" clientele which include out-of-school youth, farmers and housewives from the different barangays of Baybay. The occasion was graced by DTI Provincial Director Proceso L. Berino.

- * The ViSCA-based PRCRTC cohosted with the International Plant Genetic Resources Institute (IPGRI) the Training on Conservation of Vegetatively Propagated Crops on November 1995. The activity was participated in by 18 PGR workers from Bangladesh, Cambodia, China, Fiji, India, Indonesia, Korea, Malaysia, Maldives, Myanmar, Nepal, Papua New Guinea, Philippines, Sri Lanka, Thailand and Vietnam.

- * The Abaca Industry Integrated Program (AIIP) was launched in Eastern Samar on October 31, 1995 during the Eight Region VII Applied Communication Task Force Information Caravan. It was hosted by the provincial government of Eastern Samar.

- * Hon. Emilio Osmeña, Presidential Adviser for Economic Affairs, visited ViSCA on December 22, 1995, together with Leyte 5th District Congressman Eriberto V. Loreto and some local officials of Baybay to observe the ViSCA- based Regional Coconut Research Center's research breakthrough in macapuno production.

- * The campus telephone system came into reality with the support of the Advanced Science and Technology Institute of the Department of Science and Technology (ASTI-DOST) and the Eastern Visayas Telephone Company (EVTELCO).



EVTELCO Public Calling Office at ViSCA

- * Health Secretary Juan Flavio, together with DOH Region 8 Director Alfredo Perez, Dr. Juan Perez from Manila and other staff visited ViSCA on January 21, 1995 and appealed for people's support to the different programs of the Department of Health.

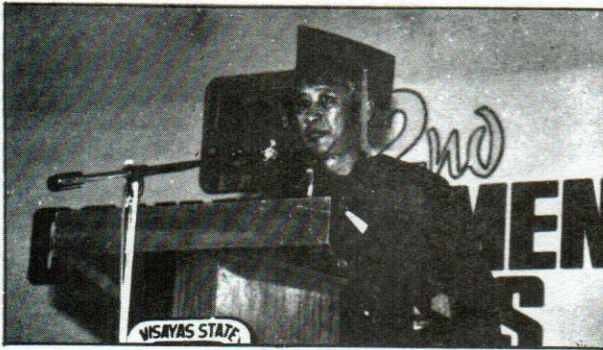


Health Secretary Juan Flavio shares with ViSCA constituency DOH's programs and appeals for the community's support

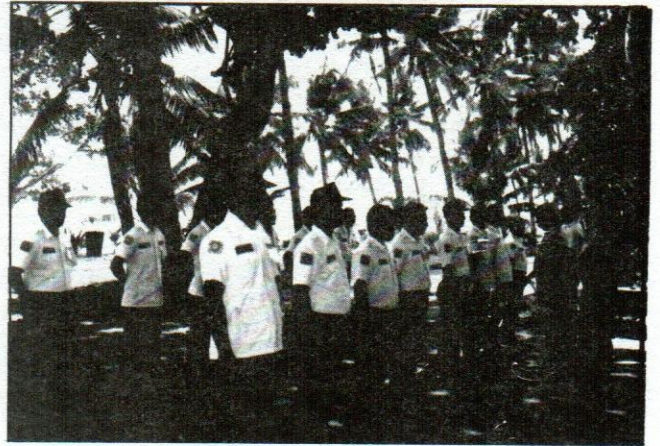
- * The Center for Social Research spearheaded a two-day celebration of the 9th Anniversary of the EDSA Revolution with the following activities: Essay Writing Contest, Poster-Making Contest, Quiz Show, Film Showing on "People Power: The Philippine Experience" and a symposium.
- * ViSCA President Samuel S. Go and Assistant Director for Extension Salvador Dagoy attended a workshop on Extension for Sustainable Agriculture at the Agricultural Extension and Rural Development Department of the University of Reading in United Kingdom.

Dr. William D. Dar, Executive Director of PCARRD, served as guest of honor during the 7th Regional Symposium on R & D Highlights on July 13-14, 1995 at ViSCA.

Glimpses



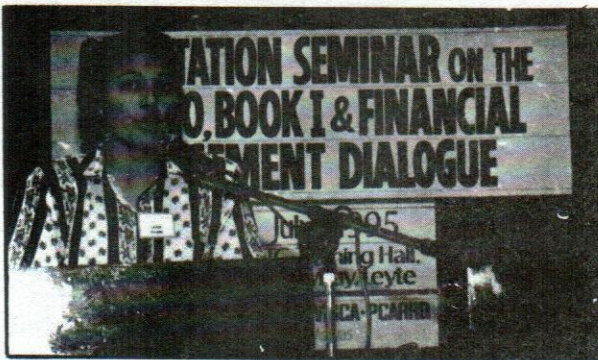
DECS Undersecretary Alejandro Wilfredo D. Clemente inspires ViSCA graduates during the 42nd Collegiate Commencement Exercises.



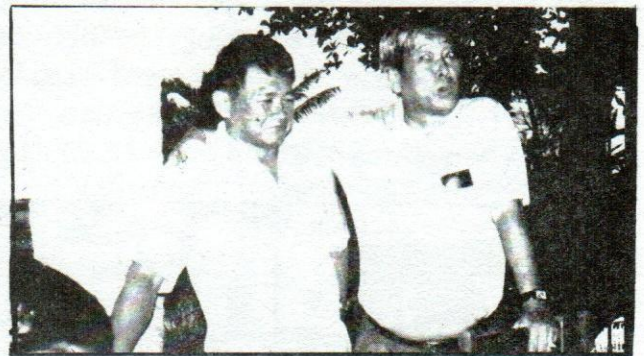
A Kenyan national receives a medal as one of the graduates with honors.



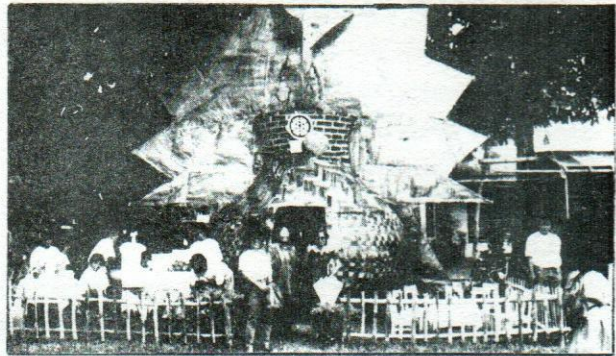
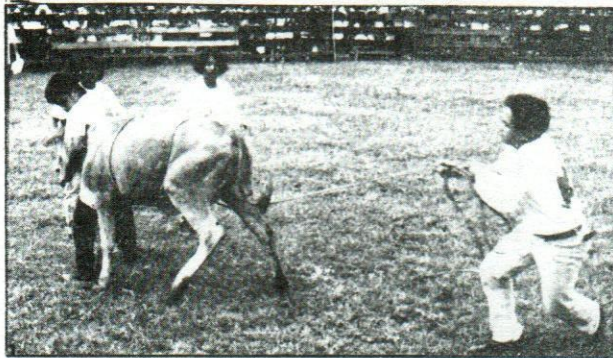
Security guards' reorientation training



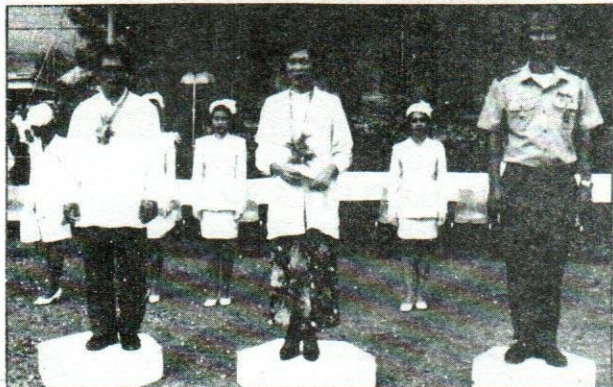
Seminar to ensure smooth administrative operation



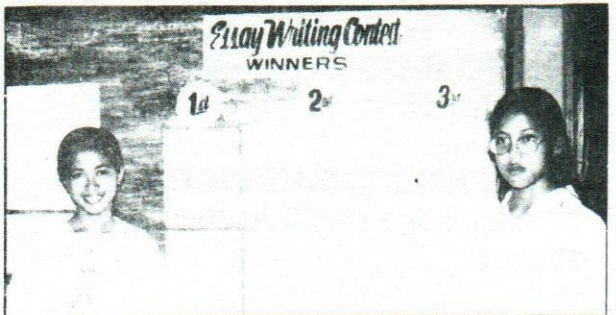
ViSCA President Samuel S. Go shares light moments with CLSU President Fortunato A. Battad and staff.



ViSCA Anniversary activities



*Presentation of Sponsors and Escorts
and Tactical Inspection*



*Celebration of EDSA Anniversary through
symposium and contests*

Officers of ViSCA

SAMUEL S. GO

President

NERELITO P. PASCUAL

Vice President for Administration

SIXTO P. SANDOVAL

Executive Secretary

LEONARDO L. MANALO

Director, External Affairs

PACIANO T. QUIROL

College Secretary & Head, PICRO

NORMA V. CALA

Financial & Management Officer

BERNARDITA P. BIBERA

OIC, Planning & Dev't. Office

ROBERTA C. LEMOS

Chief Accountant

LINDA N. MARISCAL

College Registrar

ALFREDO C. ARRADAZA, JR.

Supply Officer

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