

1992 ANNUAL REPORT



The Cover

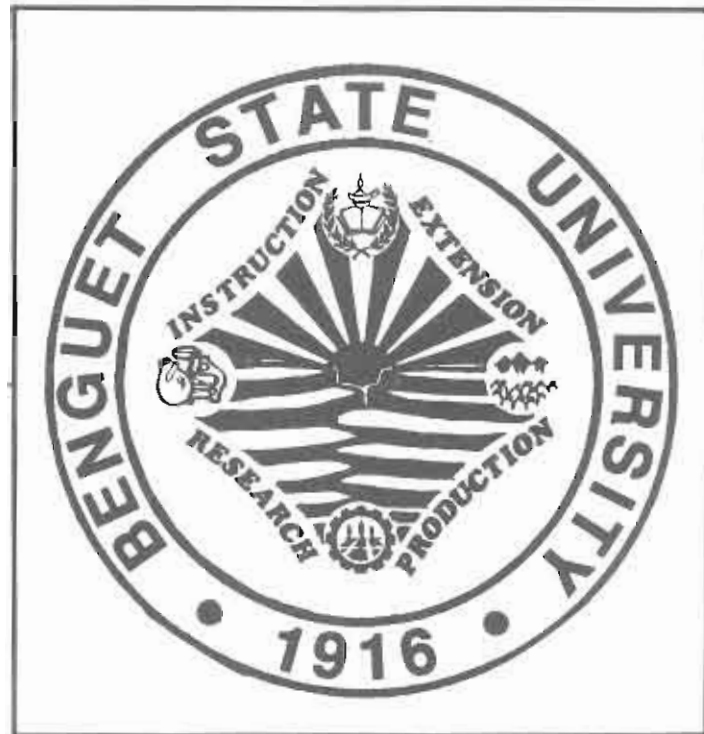
When BSU attained its university status in 1986, a new seal was evolved in accordance with its new mandate, thrusts and programs.

The University seal is represented by a circle with four sub-circles depicting the four-fold functions of the Institution with rice terraces at the foreground as the identity of the Cordillera and the sun for the foreground as the ultimate energy source for all life forms.

The space forming the outside circle bears the inscription "BENGUET STATE UNIVERSITY" and "1916", the year of its establishment at the bottom, separated by two dots, representing the top view of "addongan" beads.

The four sub-circles have the following representations and meaning:

- a. Instruction occupies the top most portion of the seal represented by a lamp with flames and book for the pursuit of truth, bordered by leaves to symbolize growth;*
- b. Research is represented by a sub-circle at the left portion of the seal with a silhouette of a microscope against a background of computer screen and keyboard representing the two major discoveries of man that enable him to probe deeper into the realm of scientific knowledge;*
- c. Extension is represented at the right portion with two distinct groupings of people - that form the University and the heterogeneous community with Cordillera architecture forming the background;*
- d. The symbol for production is found at the base of the seal with rice terraces for its background. At the foreground is a stylized agricultural land leading into an arch culminating its perspective toward a symbolic pine. Meaning, that highland agricultural production is inextricably linked with the forest ecosystem.*



MANDATE

The University shall provide graduate and undergraduate courses in the arts, sciences and humanities, professional fields in agriculture, natural sciences, technology and other technical and professional courses as the Board of Regents may determine and deem proper. It shall also promote research, extension, agribusiness and advanced studies and progressive leadership in its field of specialization.

MISSION

The Benguet State University serves as the primary force that propels development in the Cordilleras and its nearby lowland provinces through its four-fold functions: instruction, research, extension and production.

GOAL

The University is committed to the development of man, his community and his environment that he may become self-reliant and socially responsible.



Republic of the Philippines

Benguet State University

La Trinidad, Benguet - 2601

Tel. 432-2401

OFFICE OF THE PRESIDENT

June 2, 1993

His Excellency
President FIDEL V. RAMOS
Republic of the Philippines
Malacanang, Manila

Thru: Hon. Armand V. Fabella
Chairman, Board of Regents and
Secretary, Department of Education,
Culture and Sports

Sir:

I have the honor to submit the Annual Report of the Benguet State University for Calendar Year 1992.

The report presents the major achievements of BSU during the past year in its four primary functions of instruction, research, extension and production. These achievements were geared toward the attainment of government's goals of poverty alleviation, sustainable economic growth and human development.

The faculty, staff and students join me in expressing our continued support to your leadership with the commitment to fully support the implementation of the Philippine Medium Term Development Plan.

Very truly yours,


LUCIO B. VICTOR
Officer-In-Charge

BENGUET STATE UNIVERSITY
UNIVERSITY LIBRARY
LA TRINIDAD, BENGUET

TABLE OF CONTENTS

	PAGE
Letter of Transmittal	i
Table of Contents	ii
EXECUTIVE SUMMARY	1
INSTRUCTION	7
Academic Programs	7
Enrollment Trends	9
Total Enrollment	9
Enrollment in the Undergraduate	
Degree Programs	12
Enrollment in the Non-degree Programs	12
Enrollment by College	12
Graduation Figures	12
Performance in Board Examinations	14
Academic Achievers	16
Curricular and Instruction Development	
Efforts	16
Faculty Profile	17
Faculty Development	21
Academic Affairs	22
The Graduate School	22
The Colleges	23
College of Agriculture	23
College of Applied Engineering and Technology	25
College of Arts and Sciences	25
College of Education	26
College of Forestry	27
College of Home Economics and Technology	27
College of Veterinary Medicine	27

Student Services	28
Guidance and Counselling Services	29
Placement Services	29
Student Financial Aid Services	30
Residence Halls	31
University Library Services	31
Health Services Division	33
Admission's Office	34
RESEARCH SERVICES	35
Resources	35
Technologies/Significant Information Generated	35
Publications	37
Completed Researches	38
On-going Researches	40
Researches From Different Colleges	46
Proposed Researches	50
Resource Development	50
Linkages	50
Affiliate Agencies	50
Research Income	51
EXTENSION SERVICES	52
Training Programs	52
Forum/symposium/consultation	52
Outreach Projects	53
Publication	53
Other Extension Activities	53
PUBLICATIONS AND MEDIA SERVICES	64
SPECIAL PROJECT	65
GENERAL ADMINISTRATION	67
Organization and Management	67
General Administrative Services	68
Human Resource Development	70
Records Management	75
Supply Management	76

Legal Affairs	76
Planning and Development	77
General Services and Physical Resource Improvement	78
University and Board of Regents Secretariat	79
Cultural Affairs	81
PRODUCTION	82
Food Processing Center	83
Bakery Project	83
BSU Cafeteria	83
Agri-business and Other Income-generating Project	84
OPERATING AND SERVICE INCOME	87
ANNUAL BUDGET AND EXPENDITURES	88
INTERNATIONAL LINKAGES	90
DIRECTORY	91

EXECUTIVE SUMMARY

INSTRUCTION

For SY 1992-93, enrollment in the different programs increased by 11.91 percent in comparison to last year's enrollment. This trend was consistent for the last five years wherein an average annual enrollment increase of 10.50 percent was posted.

Enrollment in the Ph. D. programs showed an unprecedented increase of 52.24 percent while the master's and undergraduate degree programs had an average enrollment increases of 12.37 and 19.58 percent, respectively. The non-degree programs and the elementary had increases of 29.89 and 4.78 percent, respectively. Enrollment in the Secondary on the other hand, decreased by 8.97 percent as a result of phasing out the Secondary General Curriculum which was transferred to the Benguet Provincial High School under the Department of Education, Culture and Sports.

There were about 293 scholars in the University. One hundred fifty nine of them were recipients of national

scholarships and student loans (study-now-pay-later plan) and another 134 were recipients of various University scholarships.

The total number of graduates for SY 1991-92 was 742, of which 6 graduated Ph. D., 18 master's degrees, 170 bachelor's degrees, 138 non-degrees, 256 secondary and 154 elementary. A total of 18 undergraduate students were likewise recognized for academic excellence having obtained a weighted average ranging from 1.39 to 1.73.

Since the institution was elevated to a University status

in 1986, it has produced a number of graduates who successfully passed the different board examinations. Outstanding of which were: 5th place in the Nutrition- Dietetics Board Examination (1989), 13th place in the Doctor of Veterinary Medicine Board Examination (1989), and 1st place and 7th place in the 1990 and 1991 Forester's Board Examination, respectively.

As an extension of its instruction programs, the placement services of the Office of Student Affairs (OSA) continued to provide job placement assistance to the students and graduates. Job fairs



The Integrated Science Quiz, a yearly activity in the University, does not only develop awareness among students the relevance of science and technology but it also serves as an extension of instructions done in the classrooms.

EXECUTIVE SUMMARY

and establishment of linkages with employment agencies were undertaken.

With its efforts to come up with relevant and timely programs, the University instituted a regular evaluation for its curricular offerings. The Graduate School and the seven colleges revised their respective program offerings including the revision/updating of course syllabi and laboratory manuals. As a result of these undertakings, the Graduate School now offers Special Education as a minor field of specialization under the Master of Arts in Education. On the other hand, the College of Agriculture expanded the B.S. in Agriculture (BSA) with the offering of Sericulture and Agri-forestry as new major fields.

Related to this, the Technical Panel for Agricultural Education (TPAE) announced that based on the result of its 1992 evaluation, BSU has consistently maintained its status as a good quality school offering the Bachelor of Science in Agriculture program.

The manpower capability build-up of the University was likewise very encouraging. The total number of faculty members with doctoral degrees is now 53, with

master's degree, 96; with bachelor's degree, 106; and with bachelor of laws degree, 2. This profile is expected to be further bolstered once the 82 faculty members who are presently on scholarship shall have finished their respective graduate degrees (47 are pursuing master's degree and 35 for doctorate degree).



Aerial Strawberry production, a technology developed by Prof. Edwin Balaki. The planting medium is a mixture of compost and garden soil placed in a black poly-ethylene plastic bag.

RESEARCH SERVICES

For CY 1992, the different research centers/institutes of the University were able to implement a total of 129 researches in various commodities, 39 of which were completed and 90 on-going re-

searches. The different colleges also conducted 78 researches along their respective areas of concern, from which 43 researches were completed and 35 were on-going.

Out of these research projects that were undertaken in 1992 by the research centers/institutes, numerous mature technologies and significant information were generated. These were summarized as follows: vegetable crops, 7; root crops, 5; fruit and plantation crops, 5; ornamental crops, 2; farm resources and systems, 4; and socio-economics, 1.

Research results were likewise consolidated and published to make them available for adoption by the University's target clientele, particularly the farmers.

For 1992, the total number of research personnel was 131; of which 10 had professional ranks, 7 instructors, 33 science research positions, 42 laborers/utility workers, 11 supportive positions and 28 contractuels.

To promote professional growth of the research personnel, 21 of them were pursuing either Master's or Ph. D. at different selected universities here and abroad. In addition



A home garden model planted with sweet potato established at the Baguio Health Center Compound to promote awareness in home-grown foods, a joint undertaking of NPRCRTC-BSU and Baguio City Nutrition Council.

most of the researchers attended relevant seminars, workshops, symposia, fora, conferences and trainings.

With the acquisition of new equipment and the construction and repair of essential research facilities, implementation of the various projects programmed for the year were facilitated.

The University had established linkages with more than 21 local and foreign agencies for the implementation and conduct of relevant and priority researches.

Two affiliate agencies, the Highland Agriculture and Resources Research and Development Consortium

(HARRDEC) and the Highland Crops Research Station (HCRS), both based in the University continued their R & D partnership with BSU, the former coordinates R & D activities of member-agencies in the Cordillera Administrative Region and the latter undertakes crop improvement R & D activities on highland crops. An income of P30,714 was realized incidental to the conduct of research.

EXTENSION SERVICES

The Extension and Training Office in coordination with the various divisions of the University and other agencies carried out its mandate by working directly with the target clientele which include

farmers, housewives, out-of-school youths, development agents, extension workers, students and specialized groups.

Such services included trainings, seminar-workshops, fora, meetings, symposia, demonstrations, farm visits, tours, mass media, exhibits and publication of generated technology.

Other colleges and offices have likewise rendered extension services to their respective clientele. Among other services extended were diagnostic laboratory tests, animal vaccinations, lectures, consultancies, trainings and coaching in sports activities. In addition, some faculty members had served as evaluators, facilitators, coordinators and resource speakers in various activities in the University and other agencies.

PUBLICATIONS AND MEDIA SERVICES

The Publications and Media Services published and disseminated the BSU Facts and Figures, the BSU Student Handbook and Code of Ethics, and General Information Bulletin for Students (1991-1992).

It also prepared articles and photos for the BSU Newsletter, BSU Research Journal, and Highlights of the

BSU Diamond Jubilee Celebration. Further, it helped organized a writers foundation, extended clerical services and did some information dissemination and extension work.

AGRICULTURAL TECHNOLOGY EDUCATION PROJECT

The Agricultural Technology Education Project (ATEP) or simply Agritech project is a nationwide project with a main objective of producing technically equipped agricultural entrepreneurs. Its operation is under the auspices of the Education Development Project Implementing Task Force (EDPITAF) of the Department of Education Culture and Sports.

The Benguet State University belongs to the category of Regional Agricultural College (RAC) to which it is tasked to do research primarily on verification trials as well as to package generated technologies. In 1992, the ATEP had undertaken eight different researches, of which four were completed and four on-going. Likewise, several researches were programmed to be conducted in 1993 and another four were proposed for implementation. Apart from doing research activities, the ATEP extended assistance to Ilocos Sur Agricultural College in the field of research, and to the Rizal College of Agriculture and Technology in setting-up cooperative research undertakings. It also

prepared several ifotechs/technoguides on different highland vegetable crops for publication.

GENERAL ADMINISTRATION

The General Administration continuously provided the lead role of maintaining strict supervision and monitoring of University operations through proper implementation of systems and procedures with the end in view of ensuring effective and efficient administration and utilization of government resources.

Towards this end, several committees were created: the University Grievance Committee which is responsible for the administration and manage-



BSU, categorized as a Regional Agricultural College, implements the Agricultural Technology Education Project (ATEP) with a main objective of producing technically equipped agricultural entrepreneurs.



The BSU Administration Building houses the different administrative offices of the University.

ment of complaints and grievances; the Management Improvement and Productivity Program Committee for the improvement of performance and work in the government service; and the Suggestions and Incentive Awards Committee for evaluating employee suggestions, inventions or accomplishments and provision of awards to deserving employees. The latter already granted length of service incentive award to about 107 faculty and staff who were recipients of one step salary increase for every 3 years of service in the same position. Three hundred sixty-six faculty and staff were likewise recipients of Loyalty Award which was given in the form of cash bonus. The total amount of P1,192,000.00 was given for this award.

The automatic conversion of faculty rank as authorized under National Compensation Circular No. 68 bolstered the rank of the faculty members. A total of 235 faculty members were promoted as their respective ranks were adjusted to higher ranks, 204 of whom had corresponding adjustment in their salaries. Likewise, a total of 28 non-teaching positions were classified, 25 of which were reclassified within level while 3 were from first level to second level.

Moreover, the Performance Evaluation System (PES) for non-teaching personnel was re-installed as prescribed by Civil Service Commission Memorandum, Circular No. 12, s. 1989. The PES was being utilized by the University in evaluating employee performance which served as basis in giving of incentive and reward and for promotion and training.

In response to the urgent call of His Excellency President Fidel V. Ramos to streamline agency operations and organizations and that government agencies to formulate their respective Medium Term Development Plan, the University undertook its own streamlining and planning workshops. The streamlining report and the Medium Term Development Plan were subsequently submitted to the Department of Budget and Management and the National Economic Development Authority, respectively.

For CY 1992, seven infrastructure projects were completed and 5 were ongoing. Another 11 improvement works on existing facilities were completed. These infrastructure projects were in accord with the

University's six-year development plan which were expected to further re-inforce the clamor of the University for quality instruction and services.

The Board of Regents likewise held six meetings in 1992 to which it passed and adopted 65 resolutions that bear on policies and implementation of various programs and projects related to instruction, general administration, research, extension and production activities. Remarkable among these resolutions were on instruction: offering of Master of Public Administration effective SY 1993-94 and the approval of the curriculum thereof; revision of the two-year agri-forestry course to a diploma course effective SY 1993-94; and the revision of the B.S. Agriculture curriculum and the addition of two more major courses: Sericulture and Agro-forestry effective SY 1993-94.

PRODUCTION

Production projects implemented by the University served several purposes: as training ground for students, farmers and agricultural technicians, as supplemental sources of funds to finance the expanding various projects and activities, and as show window of research breakthroughs generated by the University.

For CY 1992, the Food Processing Center, Bakery Project, Cafeteria and Poultry Production Projects (Flocks I-III) remained as the top earning IGP in the University (Flocks IV and V of the Poultry Production Projects incurred deficits in 1992 as these were newly acquired stocks and were not yet generating income when the report was prepared). The various crop production projects, taken as a whole, also generated substantial income for the University.

OPERATING AND SERVICE INCOME

The total income generated under the general fund for CY 1992 which was remitted to the National Treasury amounted to P3,821,009.51. This reflected an increase of 52.84 percent or P1,321,009.51 over the CY 1992 estimated income of P2,500,000.00.

Operating and service incomes were collected from the various operations and services of the University such as school fees, building/lot rentals, school share and dormitory/guestel fees.

ANNUAL BUDGET AND EXPENDITURES

For FY 1992, the University received a total appropriation of P55,210,032.00 from the national government which was slightly higher than the regular appropriation for FY 1991 (P49,772,845). (The University received a rehabilitation fund of P25,631,391.00 for FY 1991). The increase was brought about by higher appropriation for MOOE from P6,571,000 (FY 1991) to P8,069,178 (FY 1992) and capital outlay from P3,936,000.00 (FY 1991) to P6,235,000.00 (FY 1992). For personal services, a minimal increase was noted from P39,265,845 (FY 1991) to P40,905,854 (FY 1992).

The higher amount allocated for capital outlay for 1992 was largely due to inclusion of P1.5 M for equipment outlay to which there was zero appropriation in this component in 1991.

The total cash allocation received by the University for FY 1992 amounted to P56,632,155. This amount represented P50,521,763 as actual cash releases from appropriations for FY 1992. P6,068,112 for accounts payable in 1991 to various creditors of the University were released and paid in 1992, and another P42,280.00 for state checks.

With regards to cash allocation for FY 1992, there was still an unfunded allotment of P4,688,269.



The vast agricultural lands of the University are utilized for various agri-business production projects to supplement the University's funding requirements.

INSTRUCTION

Table 1. Degree programs and areas of specialization being offered by the University.

ACADEMIC PROGRAMS

The University offers Doctor of Philosophy (Ph. D.) degree program with six areas of specialization, eight master's degree programs with various major fields of specialization, 13 baccalaureate degree programs and several non-degree programs.

During the year under review, Special Education (SPED) was added as a minor field of specialization under the MAEd program. This is particularly offered to graduate students who major in Guidance and Counseling and Elementary Education.

The different degree programs being offered are presented in the following table:

Program	Major Field of Specialization
A. Graduate Programs	
1. Doctor of Philosophy (Ph. D.)	Agricultural Education Horticulture Rural Development
2. Ph. D. in Education	Educational Development Language Education Technology and Livelihood Education : (a) Biology (b) Mathematics
3. Master of Science (MS)	Agricultural Economics Agricultural Education Agronomy Animal Science Botany Entomology Extension Education Forestry: (a) Silviculture (b) Watershed Mgt. Horticulture Plant Pathology Rural Development Soil Science
4. Master of Arts in Education (MA.Ed)	Educational Administration Elementary Education

Con't. Table 1

Program	Major Field of Specialization
	English As A Second Language Filipino As A Second Language Guidance and Counseling
5. Master of Arts in Physical Education (MAPE)	
6. Master of Arts in Teaching (MAT)	Biology Chemistry English As A Second Language Filipino As A Second Language General Science Mathematics Social Studies
7. Master in Forestry (MF)	Silviculture Watershed Management
8. Master of Education (M.Ed)	Home Economics Practical Arts
9. Master of Science Teaching (MST)	Physical Science
10. Master of Resource System Management (MRSM)	Agribusiness
B. Undergraduate Programs	
1. Bachelor of Science in Agriculture (BSA)	Agronomy Agricultural Economics Agricultural Extension Animal Science Entomology Horticulture Plant Pathology Sericulture Soil Science



The University president and University Vice President congratulate graduates from the college and secondary departments respectively.

ENROLLMENT TRENDS

Total Enrollment

The average (1st and 2nd semesters) enrollment for the SY 1992-1993 is 5,821.5 which exceeded last year's figures (5,202) by 11.91 per cent or an increase of 619.5 more students (Tables 2 and 3). Likewise, summer enrollment for the period in review was higher than the previous year. For the last five years, an average annual enrolment growth rate of 10.50 per cent was noted, which maybe taken as indication of students' preferences to the different degree offerings of the University. It may also be due to the expansion of degree programs being offered in the University as it started offering non-agricultural degree programs, thus students have more options to choose from. Another plus factor is that it might be the affordable tuition fees being charged by the University.

It can be noted further in Table 3 that the enrollment in Secondary Education decreased by 8.97%. This is because the University had phased out the General Curriculum which was turned over to the Benguet Provincial High School under the Department of Education, Culture and Sports three years ago.

Program

Major Field of Specialization

2. Bachelor of Science in Agribusiness (BSAB)
3. Bachelor of Science in Agricultural Education (BSAE)
4. Bachelor of Science in Agricultural Engineering (BSAEn)
5. Bachelor of Science in Animal Technology (BSAT)
6. Bachelor of Science in Applied Statistics (BSAS)
7. Bachelor of Science in Forestry (BSF)
8. Bachelor of Science in Home Economics (BSHE)
9. Bachelor of Science in Nursing (BSN)
10. Bachelor of Science in Nutrition and Dietetics (BSND)
11. Bachelor of Elementary Education (BEEd)
12. Bachelor of Secondary Education (BSE)
13. Doctor of Veterinary Medicine (DVM)

C. Non-degree Program/Post Secondary Courses

1. Certificate in Home Management Arts (CHMA)
2. Certificate in Physical Education (Specialization)
3. One-year Automotive Technology
4. Two-year Agri-forestry Course
5. Six-month Baking Course
6. Six-month Dressmaking
7. Six-month Food Processing
8. Sixth-month Tailoring Course
9. 5-month Basic Automotive Technology
10. 5-month Advanced Automotive Technology
11. 5-month Woodworking Technology

D. Secondary Education Training Department

- 1) Special Agricultural Science
- 2) Agricultural Home Economics
- 3) Vocational Agriculture

E. Elementary Training Department

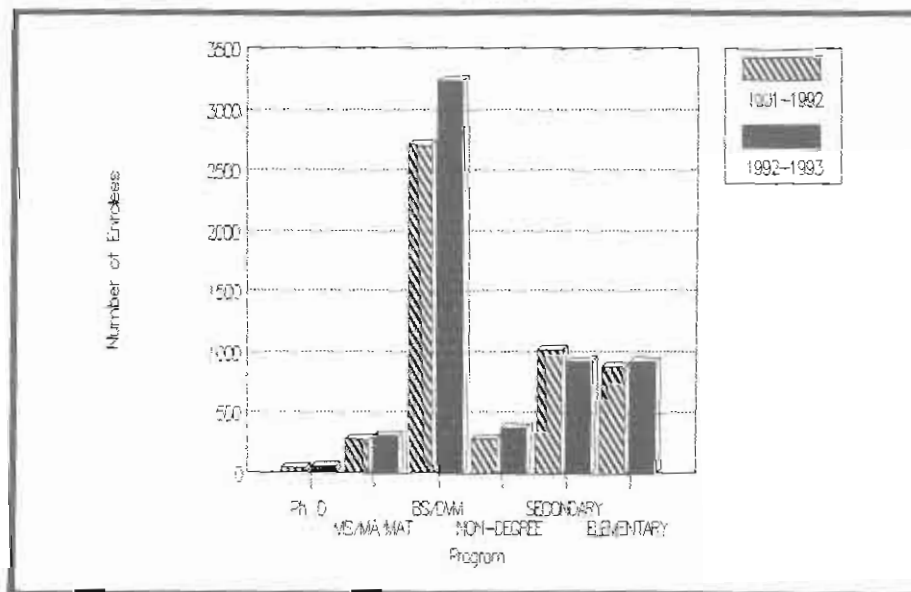
- Grade I to Grade VI

Table 2. Comparison of Enrollment in the Graduate and Undergraduate Degree Programs SY 1991-1992 and SY 1992-1993

DEGREE PROGRAM	SCHOOL YEAR 1991-1992				SCHOOL YEAR 1992-1993				% Increase (Decrease)
	SUMMER 1991	1ST SEM 1991	2ND SEM 1991	AVERAGE (1&2 SEMS)	SUMMER 1992	1ST SEM 1992	2ND SEM 1992	AVERAGE (1&2 SEMS)	
GRADUATE PROGRAMS									
Ph. D.	11	29	38	33.5	29	51	51	51	52.2%
M.S/MA/MAT	136	264	302	283	129	309	327	318	12.3%
Sub-total	147	293	340	316.5	158	360	378	369	16.5%
UNDERGRADUATE PROGRAMS									
BSA	165	650	640	645	175	902	878	890	37.9%
BSAB	20	66	69	67.5	11	98	105	101.5	50.37%
BSAE	103	207	165	186	45	116	105	110.5	(40.59%)
BSAE _n	49	231	211	221	30	295	277	286	29.41%
BSAT	21	66	67	66.5	14	86	81	83.5	25.56%
BSAS	--	--	--	--	--	--	--	--	--
BSF	91	379	383	381	69	477	445	461	20.99%
BSHE	24	70	67	68.5	26	72	67	69.5	1.46%
BSN	4	222	214	218	24	236	223	229.5	5.28%
BSND	70	181	172	176.5	58	202	186	194	9.92%
BEE _d	62	266	269	267.5	111	330	327	328.5	22.80%
BSE	34	209	219	214	107	276	291	283.5	32.48%
DVM	81	196	184	190	94	198	188	193	1.58%
Sub-total	724	2743	2660	2701.5	764	3288	3173	3230.5	19.58%
TOTAL, DEGREE PROGRAMS	871	3036	3000	3018	922	3648	3551	3599.5	19.27%

Fig. 1. Comparison of Enrollment, SY 1991-1992 and SY 1992-1993

As presented in Fig. 1, there is a marked increase in enrollment in the undergraduate programs when compared to last year's enrollment. The same pattern was likewise noted for the graduate programs as well as the elementary and non-degree programs which all reflected an upward trend of enrollment.





Graduate students and their families from Nepal.

During the year, it is noteworthy to mention that there were 17 foreign students enrolled in the different programs of the University (1 Ph. D., 13 M.S and 2 MAEd). They are from Nepal (8), Kenya (5), South Korea (3) and Ethiopia (1).

Table 3. Comparison of Enrolment in the Secondary, Elementary and Non-degree Programs, SY 1991-1992 and SY 1992-1993

DEGREE PROGRAM	SCHOOL YEAR 1991-1992				SCHOOL YEAR 1992-1993				% Increase (Decrease)
	SUMMER 1991	1ST SEM 1991	2ND SEM 1991	AVERAGE (1&2 SEMS)	SUMMER 1992	1ST SEM 1992	2ND SEM 1992	AVERAGE (1&2 SEMS)	
NON-DEGREE PROGRAMS									
Agri-Forestry	42	142	158	150	66	177	180	178.5	19.00
Auto-Mech	--	40	26	33	--	48	53	50.5	53.00
Baking	--	3	--	1.5	--	--	--	--	0.00
CPE	--	44	32	38	--	47	41	44	15.79
Electronics	--	--	--	--	--	--	10	5	0.00
HMA	--	56	57	56.5	--	89	73	81	43.36
CMT Cross Enrolee	--	6	14	10	3	7	31	19	90.00
W.W. & Carpentry	--	4	--	2	--	--	--	--	0.00
Sub-Total	42	295	297	291	69	368	388	378	29.89
ELEMENTARY	--	878	878	878	--	920	920	920	4.78
SECONDARY	--	1015	1015	1015	--	924	924	924	(8.97)
TOTAL, Secondary, Elem. and Non-degree Prog.	42	2188	2180	2184	69	2212	2232	2222	1.74
TOTAL ENROLMENT	913	5224	5180	5202	991	5860	5783	5821.5	11.91

Enrolment in the Undergraduate Degree Programs

Figure 2 shows that the BSA program had the most number of enrollees comprising 28% of the total number of enrolment in the undergraduate program. It was followed by the BSF program (14%), the BEEd (10%), the BSAEn and the BSE (9%), the BSN (7%), the DVM and the BSND (6%), the BSAT, the BSAB and the BSAE (3%), and the BSHE (2%).

Except for the BSAE program whose enrolment had decreased, all the other degree programs reflected an increased enrollments as compared to last year's figures.

Enrolment in the Non-degree Programs

The two-year Agri-

forestry course registered the most number of enrollees (47%) in the non-degree programs offered during the year. The Certificate in Home Management Arts ranked second with 21% followed by the Auto-Mechanics (13%) course. A course on electronics, which was newly offered during the second semester, had the least number of enrollees (1%) (Figure 3).

Enrollment By College

Figure 4 presents the average enrolment (1st and 2nd semester) by college. The College of Education which offers the BSAE, BSE, BEEd, CPE, Elementary and Secondary had the highest number of enrollees (2,610.5), followed by the College of Agriculture which offers the BSA, BSAB

and the two-year Agri-forestry courses (1,170). The College of Arts and Sciences, on the other hand, which only offers the Bachelor of Science in Nursing and BSAS had the least number of enrollees (229.5).

GRADUATION FIGURE

The University graduated 742 students of agriculture, forestry and related sciences as well as non-degree, high school and elementary education; out of whom were 300 elementary, 256 secondary and 138 non-degree, 170 BS, 18 M and 6 Ph. D. (Table 4). The total figure indicates an 8.9% increase when compared to the total figure last year.

Fig. 2. Distribution of Enrolment, Undergraduate Programs, 1992

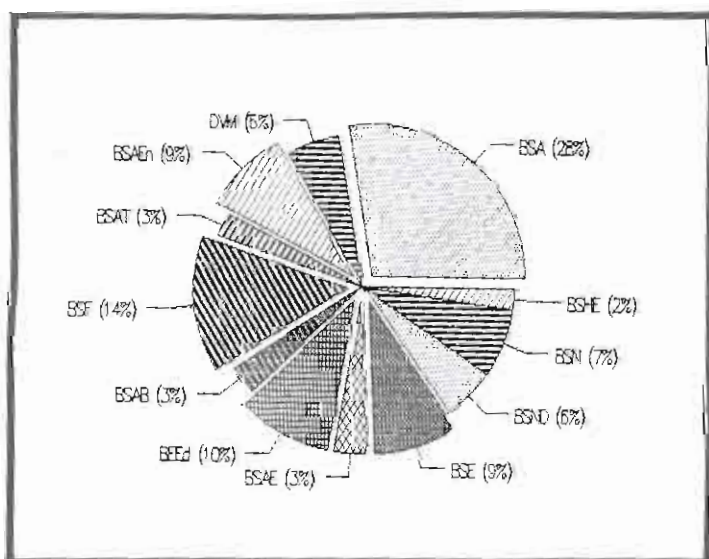


Fig. 3. Distribution of Enrolment, Non-Degree Programs, 1992

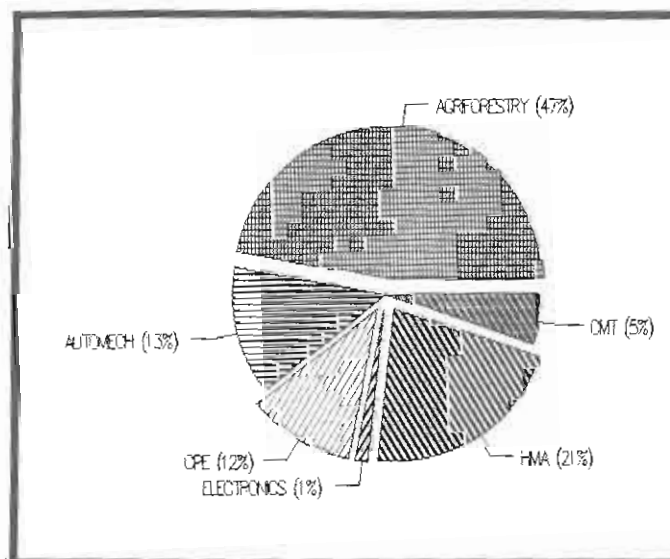
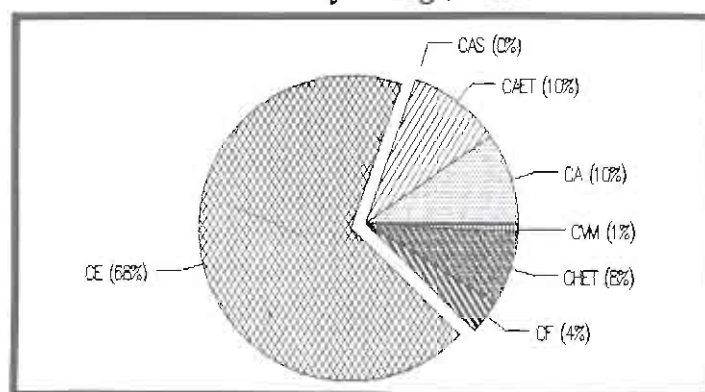


Table 4. Comparison of Graduates, SY 1990-1991 and SY 1991-1992

PROGRAM	SCHOOL YEAR 1991-1992				SCHOOL YEAR 1992-1993				% Increase (Decrease)
	2ND SEM (March)	SUMMER (May)	1ST SEM (Oct.)	TOTAL	2ND SEM (March)	SUMMER (May)	1ST SEM (Oct.)	TOTAL	
GRADUATE PROGRAMS									
Ph. D.	4	--	1	5	2	2	2	6	20.00
M.S./MA/MAT	4	6	5	15	10	1	7	18	20.00
Sub-total	8	6	6	20	12	3	9	24	20.00
UNDERGRADUATE PROGRAMS									
BSA	39	2	6	47	26	3	14	43	(8.51)
BSAB	10	1	0	11	2	--	1	3	(72.73)
BSAE	50	2	18	70	44	8	11	63	(10.00)
BSAEn	3	1	1	5	2	--	1	3	(40.00)
BSAT	2	--	--	2	--	--	--	--	--
BSAS	--	--	--	--	--	--	--	--	--
BSF	20	--	3	23	21	1	4	26	13.04
BSHE	12	1	5	18	14	--	1	15	(16.66)
BSHT	1	--	--	1	--	--	1	1	0.00
BSN	--	--	--	--	--	--	--	--	--
BEEEd	--	--	--	--	--	--	--	--	--
BSE	--	--	--	--	--	--	--	--	--
DVM	3	--	--	3	2	--	3	5	66.66
Sub-Total	152	7	33	192	113	21	36	170	(11.46)
NON-DEGREE PROGRAMS									
2-yr. Agri-forestry	13	--	1	14	21	--	3	24	71.43
CPE	2	11	--	13	--	8	6	14	7.69
HNA	16								
5-mo. 3rd Class Auto Mech	--	--	--	--	14	--	--	14	0.00
5-mo. Basic Auto Tech.	5	--	4	9	9	--	31	40	344.00
5-mo. Adv. Auto Tech	--	--	--	--	2	--	--	2	0.00
Non-formal Auto Mech	1	--	--	1	--	--	3	3	200.00
Non-formal Educ. in Basic Elect. (5 mos)	--	--	--	--	--	--	11	11	0.00
Non-formal Educ. on Basic Woodworking--	--	--	--	--	--	--	--	--	0.00
1-yr Auto Tech	12	--	--	12	--	--	--	--	0.00
Welding	--	--	3	3	--	--	--	--	0.00
Furniture	--	--	1	1	--	--	--	--	0.00
Sub-Total	49	11	11	71	73	8	55	138	94.37
ELEMENTARY	154	--	--	154	154	--	--	154	0.00
SECONDARY	244	--	--	244	256	--	--	256	4.92
GRAND TOTAL	607	24	50	681	608	32	100	742	8.96

Table 5. List of BSU Graduates who successfully passed Board Examinations

Type of Board Examination	1986	1987	1988	1989	1990	1991	1992
1. Professional Board Examination for Teachers	49	26	27	38	32	14	data not yet available
2. Nutrition-Dietetics Licensure Examination	--	--	--	6	3	5	2
3. Forester's Board Examination	12	2	5	2	12	4	1
4. Agricultural Engineer's Board Examination	--	4	5	3	5	7	data not yet available
5. Doctor of Veterinary Medicine	--	--	2	8	2	No examinees	4

Fig. 6. Distribution of graduates by College, 1992

True to its goal of developing a world-class Filipino workforce, the University

produced board topnotchers in nutrition-dietetics, Veterinary Medicine, and forestry licen-

sure examinations for the past several years (Table 6).

Table 6. List of Board Examination Topnotchers

Name of Successful Examinees	Type of Board Exam Taken	Rank	Year Board Result Released
1. Ma. Elena O. Tabanda	Nutrition-Dietetics Licensure Examination	5th place	1989
2. Leia Pang-oden	DVM Board Exam	13th place	1989
3. Florencio T. Pacio	Forester's Board Exam	1st place	1990
4. Joseph L. Mauting	Forester's Board Exam	7th place	1991

ACADEMIC ACHIEVERS

For SY 1991-92, there were 18 undergraduate students who were recognized for academic excellence during the University's Achievement Day. Of this number, 10 were freshmen, 5 sophomores and 3 junior students. The weighted average of these students ranged from 1.39 to 1.73. There were no graduating students, however, who made it to the honor rolls for SY 1991-1992 (Table 7).

CURRICULAR AND INSTRUCTION DEVELOPMENT EFFORTS

During the year under review, the different colleges continuously enriched and strengthened the different academic program offerings.

Among the common activities undertaken by the colleges include the revision and updating of course syllabi and laboratory manuals and production/preparation of instructional materials and visual aids.

Apart from classroom instruction, educational tours/field trips were also undertaken to supplement the subject matter discussed inside the classroom and to observe new and relevant techniques related to their courses.

Consultation activities with the students during the vacant periods of the faculty were also undertaken.

Table 7. Academic achievers, SY 1991-1992

College/Course	YEAR				TOTAL
	I	II	III	IV	
College of Veterinary Medicine DVM	3	1			
College of Arts and Sciences BSN	2				
College of Education BSE BEE	4	2 1			
College of Agriculture BSA	1		3		
College of Applied Eng'g. and Technology BSA Eng'g.		1			
TOTAL	10	5	3		

In the College of Agriculture, the guidelines, style and format for the undergraduate thesis and practicum were revised to facilitate processing

and come-up with uniform presentation of manuscripts. In the College of Education, the other hand, members of faculty conducted observat



Souvenir photo of student-teachers during their seminar on Improving Student-Teachers Competencies.

on classroom performance by student-teachers, set-up seminar workshops in the PRODED-ERP and SEDP to student-teachers in collaboration with DECS regional trainers, and dialogued with students taking education subjects. Moreover, in the Secondary Education Training Department, the New Secondary Education Curricula (NSEC) which is being implemented since the past three-and-a-half years includes Values Education (GMRC) as an added subject in all year levels. To maintain the identities of the three secondary curricular offerings while implementing the NSEC program, enrichment courses were included such as: Vocational Agriculture from the first to fourth years, and farming program from the second to fourth years for those in the

Vo-Ag Curriculum; Home Economics from the first to fourth years for the Home Economics Curriculum and Agricultural Science from the first to fourth years for the Special Agricultural Science curriculum.

FACULTY PROFILE

The University has a total teaching force of 276 for SY 1992-1993 (Table 8). This number is higher by 6 than of last year. As in previous years, the College of Education had the highest number of faculty (94) followed by the College of Arts and Sciences (66) and the College of Agriculture (64). The College of Veterinary Medicine and the College of Home Economics and Technology on the other hand, had 12 faculty members each.

The reason why the Col-

lege of Education had the highest number of faculty is that it also comprises the secondary and elementary training departments. These two departments serve as laboratory schools for its students taking up education courses. Likewise, several faculty members from different colleges were designated to perform administrative functions aside from teaching one, two or three subjects in accord with the BSU code.

Reflected in Table 9 is the distribution of faculty by academic rank among the colleges. The College of Agriculture had the most number of full-fledged professors (24) followed by the CAS and CE with 23 each. On the other hand, the College of Forestry has no full-fledged professor among its roster of faculty members.

Table 8. Distribution of faculty members among colleges

COLLEGES	NUMBER	PERCENTAGE
College of Agriculture	64	23
College of Applied Eng'g. and Technology	14	5
College of Arts and Sciences	66	24
College of Education	94	34
College of Forestry	14	5
College of Home Economics and Technology	12	4
College of Veterinary Medicine	12	4
TOTAL	276	100



Faculty, staff and students listen to a talk on how to prevent cancer during the Cancer Prevention Week.

In addition to 13 substitute instructors who were hired last year, seven more

were hired during the year to teach the courses being hand-

led by faculty members who were on study leave.

Table 9. Distribution of faculty by academic rank among colleges

COLLEGE	PROF.	ASSO. PROF.	ASST. PROF.	INSTRUCTOR	SUBSTITUTE	TOTAL
CA	24	21	9	9	1	64
CAET	2	2	4	4	2	14
CAS	23	16	7	14	6	66
CE	23	34	19	13	5	94
CF	0	2	1	7	4	14
CHET	4	3	3	2	0	12
CVM	3	1	3	3	2	12
TOTAL	79	79	46	52	20	276

Comparatively speaking, the number of faculty members with professor items had increased markedly in 1992 as compared to the two previous years (1990 and 1991) (Table 10). The sudden increase in the number of professional

ranks was brought about by the automatic adjustment of faculty positions as prescribed by National Compensation Circular No. 68 (NCC 68). Moreover, the same circular effected an increase in the number of faculty members with

the rank of associate professor. Such changes reflected a corresponding decrease in the number of faculty members with the ranks of Assistant Professor and Instructor.

Table 10. Comparison of faculty by academic rank, 1990, 1991 and 1992

RANK	YEAR		
	1990	1991	1992
Professor	27	29	78
Associate Professor	44	45	79
Assistant Professor	92	84	46
Instructor	101	99	52
Substitute	15	13	20
TOTAL	279	270	276



BENGT STATE UNIV
UNIVERSITY LIBRA
UNIDAD: RENUN

BSU students actively participated during the convention of the Future Farmers of the Philippines.



Campus Journalism is also promoted in the secondary education level.



Secondary students of the University were chosen to occupy top government positions in the Province of Benguet during the Scout Official For A Day 1992.

Teachers with bachelor's degrees still had the highest number as regards the highest degree obtained. However, most of them are MS candidates. Some MS/MA holders are Ph.D./Ed. D. candidates as well. It is expected that in two to five years time the number

of MS holders and Ph. D./Ed.D. holders will increase correspondingly.

At the college level, CA was listed to have the highest number of Ph. D. holders (19) and MS/MA holders (31) as compared to the other colleges

(Table 11). On the other hand the College of Education has the highest (53) Bachelor's degree holders among the colleges while the CVM has yet to produce a Ph. D. holder as one of its faculty members is pursuing his doctoral degree in Australia.

Table 11. Distribution of faculty by highest degree finished among colleges

COLLEGE	HIGHEST DEGREE FINISHED				TOTAL
	AB/BS DVM	MS/MA MAT	Ph.D./ Ed.D	LLB.	
CA	14	31	19		64
CAET	9	4	1		14
CAS	21	29	14	2	66
CE	53	26	15		94
CF	10	2	2		14
CHET	5	5	2		12
CVM	10	2	0		12
TOTAL	122	99	53	2	276

As of 1992, there were 53 Ph. D./Ed. D. holders in the teaching force which was higher by 2 and 7 as compared

in 1991 and 1990 (Table 12). With the on-going faculty development program of the University it is expected that

the upward trend of obtaining higher degrees will continue in the next years.

Table 12. Comparison of faculty by highest degree finished, 1990, 1991, 1992

DEGREE	YEAR		
	1990	1991	1992
Ph. D./Ed. D	46	51	53
MS/MA/MAT	108	96	95
BS/AB/DVM	110	107	106
LLB.			2
TOTAL	264	254	256

Note: Substitute and part-time instructors not included

Faculty Development

As of the end of SY 1992, there were 82 faculty members listed who are pursuing either master's or doctor's degrees (Table 13). Of this number,

five of them are enrolled in selected universities abroad enjoying full external scholarship grants from East West Center Program and Colombo Plan while nine are enrolled in selected universities in the

country being supported by local scholarship grants and/or international agencies. The remaining 68 are pursuing their respective degrees on their own expenses.

Table 13. Number of faculty members pursuing higher degrees.

COLLEGE	DEGREE BEING PURSUED		TOTAL
	MS/MA/MAT	Ph. D./Ed. D.	
CA	6	13	19
CAET	5	0	5
CAS	17	14	31
CE	1	4	5
CF	6	1	7
CHET	5	1	6
CVM	7	2	9
TOTAL	47	35	82

Table 14. Number of faculty members who attended trainings, seminar-workshops and/or conferences

COLLEGE	Local	Regional	National	International	TOTAL
CA	21	3	10	6	40
CAET	0	0	0	0	0
CAS	10	1	9	0	20
CE	18	6	7	1	32
CF	2	0	4	0	6
CHET	3	0	5	0	8
CVM	5	2	1	0	8
TOTAL	59	12	36	7	114

ACADEMIC AFFAIRS

The Vice President for Academic Affairs (VPAA), under Article 20, Section 2 of the BSU Code, is mandated to administer and supervise the plans, programs and projects involving instruction in coordination with the Deans of the different colleges and institutes and other offices supportive of academic matters.

Accomplishments:

1. Through a memorandum, the VPAA encouraged "professionalism" among all faculty involved in academic matters ;
2. Recommended a number of faculty members to attend seminars, workshops, trainings, and to participate and/or present papers in national and international conventions;
3. Recommended some faculty for study grants;
4. Convened appropriate committees to pass judgment on scholars who requested for extension of their study grants;
5. Organized conferences, meetings with deans, students and faculty;
6. Organized Ad Hoc Committees to review the undergraduate and graduate curricula and came up with a streamlined and enriched degree program;
7. Required all the colleges to come up with their 5- year development agenda; as well as a functional "systems and procedures" that effect their operations;
8. Coordinated some symposia, lectures, dialogue and panel discussions on various agenda;
9. Supported program of the University, such as: Athletics, Tree planting for the elementary, Boy Scouts, community affairs, Quiz

bees, Science Quiz, nalism, FFP and FAH
10. Encouraged faculty members (technical) to serve as resource persons in regional, national, and international trainings.

THE GRADUATE SCHOOL

The Graduate School is a special program of the University that provides graduate education to professional persons presently employed as well as to regular graduate students.

The faculty of the Graduate School is composed of professors with appropriate graduate degrees and they are mainly from the other colleges of the Benguet State University. Some of them however are professors from affiliated agencies and other graduate schools in the region. A visiting professor from Ghent University in Belgium has taught courses in Agriculture and Economics (Table 15).



Officers of a student organization taking their oath of office during the induction program.

The Graduate School maintains and operates a section in the University Library to which it has some 5,000 volumes of books, journals, Thesis/Dissertation manuscripts and other references. It acquired 33 volumes of recent textbooks for the GS Library, one set of Lexicon University Encyclopedia and a brand new vehicle (L-300 Van).

Laboratory equipment were likewise acquired by the Graduate School to supplement existing facilities for instruction and research particularly in the Agro-Horti laboratory. Six units of microcomputers and audio-visual equipment were made available for use by graduate students.

With the aim of improving competencies for instruction, evaluation of faculty by the graduate students was conducted during the 1st semester, SY 1992-1993. The results were given back to the GS Faculty for consideration.

A number of Graduate School faculty attended seminars and conferences related to their respective areas of specialization.

As a means of developing curricular programs, the Graduate School started the revision of its various

Table 15. Educational Qualification and Affiliation of Graduate Faculty by term

Degree/Affiliation	Summer 1992	SY 1992-1993		Total
		1st sem	2nd sem	
Ph.D/Ed.D				
BSU	16	26	27	69
Consortium Agencies	2	3	4*	9
MS/MA/MAT/MST				
BSU	14	28	20	62
Consortium Agencies	--	1	--	1
TOTAL	32	58	51	141

* One visiting professor from Ghent University, Belgium

programs. Simultaneous updating of course contents of all subjects in the revised curricula were also done.

THE COLLEGES

As of 1992, the Benguet State University has seven colleges. These are the College of Agriculture (CA), College of Applied Engineering and Technology (CAET), College of Arts and Sciences (CAS), College of Education (CE), College of Forestry (CF), College of Home Economics and Technology (CHET), and College of Veterinary Medicine (CVM).

With the plan of the University to develop the Department of Nursing, which is presently under the College of Arts and Sciences, as a separate college effective SY 1993-1994, the BSU will be having eight colleges by then.

College of Agriculture

The College of Agriculture (CA) offers both undergraduate and graduate courses in agriculture. Graduate courses being offered include: Doctor of Philosophy in Horticulture, Doctor of Philosophy in Rural Development and Master of Science degree with various major fields of specialization in agriculture. On the other hand, undergraduate programs being offered are: Bachelor of Science in Agriculture with nine major areas of specialization including Sericulture, a newly approved major field of specialization, and Bachelor of Science in Agri-business. A two-year Agri-forestry course is also being offered by the college.

Under its production projects, the CA has managed

five production projects which include: Swine project, poultry project, cattle project, goat and rabbit projects and seed production projects.

The College continued its effort to develop its manpower through establishment of institutional linkages with local, national and international agencies. Towards this end, the College encourages faculty members to look for scholarship/training grants to which they may avail of to pursue academic degree programs.

Through the effort of Prof. Leopoldo Tagarino, a faculty member of the Department of Agricultural Economics and Agri-business Management, an institutional linkage between the University and the Ghent University in Belgium was made possible. Other institutions which the college established linkage with include the Cheju Junior College in Korea where three of its faculty members namely: Dr. C. C. Consolacion, Dr. F. T. Bawang, and Dr. A. C. Tipayno visited Korea and forged an instructional and research tie-up and the National Chung Shin University in Taiwan.

Two more faculty members, Dr. T. M. Merestela and Dr. P. B. Alipit also visited Japan in 1992 for possible research linkage in agriculture.

There are at present eight departments comprising the college as a consequence of the splitting of the Department of Crop Science into two departments: the Department of Agronomy and Department of Horticulture. The other departments that comprise the college are: Department of Crop Protection, Department of Soil Science, Department of Animal Science, Department of Agricultural Extension, Department of Agricultural Economics and Agribusiness Management and the Department of Agri-forestry.

During the year, the College has formed various committees and designated coordinators for instruction, research, extension, production, socials and adhoc committees with specific functions to help plan out and implement the activities in the college. The following committees with their respective accomplishments are presented below.

Research Committee

1. Coordinated the college monthly seminar series as follows:

<u>Title</u>	<u>Speaker</u>	<u>No. of Participants</u>
a) The potato glandular trichomes: mechanism for insect resistance	Dr. Z.N. Ganga	70
b) <i>Meloidogyne graminicola</i> : its effects on the growth and yield of upland rice	Dr. L.M. Villanueva	55
c) Pesticide: its effects to humans	Dr. C. Cheng	120
d) Agriculture in New Zealand	Mr. A.W. Fagyan	34

2. Endorsed 43 research proposals (studies, project and programs) to HAR-RDEC for DOST funding.

Socials Committee

1) Coordinated the First Farmers' Day sponsored by the college during the University Diamond Jubilee on January 12, 1992.

2) Coordinated the First Agricultural Science Quiz Bee Contest and at the same time selection of participants to the National Agricultural Science Quiz Bee Contest.

3) Sponsored the First "Talakayan sa CA" with speakers from the Personnel Office and the General Administrative Office.

4) Coordinated the Faculty Educational Tour to UP Los Banos.

Instruction Committee

- 1) Consolidated suggestions/comments from faculty members on the following:
 - a) Scheduling of final examination
 - b) Mid-term clearance
 - c) Enrolment procedures

The suggestions/comments were forwarded to the administration and were all adopted and implemented.

- 2) Facilitated the revision of the BSA and Agri-forestry curricula to be implemented SY 1993-94.
- 3) Facilitated preparation of proposal on the offering of new major fields for BSA program.
- 4) Prepared department and college information bulletins.

Adhoc Committee

- 1) Coordinated athletic activities of the College during the Annual University Intramurals.

College of Applied Engineering and Technology

The College of Applied Engineering and Technology (CAET) is made up of two



A cultural presentation of the BSU Highland Cultural Dance Troupe.

departments: the Dept. of Agricultural Engineering, and the Department of Applied Technology. It offers one degree program, the 5 year Bachelor of Science in Agricultural Engineering and several non-degree technical-vocational courses in the fields of automotive technology, wood-working and electronics. These short-term courses, designed to cater to vocationally-inclined students, last for a period of five months for the basic courses and one year for the advanced courses.

Moreover, CAET offers basic agricultural engineering courses for students enrolled in the BSA, BSAB, BSAE and Agro-forestry programs. For the SY 1992-1993, research activities at CAET was still confined to faculty-student researches in the form of thesis.

On the other hand, a number of training and extension programs which deals with the promotion, demonstration and adoption of mature engineering technologies such as hydraulic ram pump and other non-conventional energy resources have been prepared and programmed for implementation. Besides, the College conducted review classes for agricultural engineering graduates who intended to take the licensure examination.

College of Arts and Sciences

The College of Arts and Sciences (CAS) offers basic courses for the first two years of the different degree programs being offered by the other colleges in the University. The College also offers

Bachelor of Science in Applied Statistics (BSAS) and the Bachelor of Science in Nursing (BSN).

The College is headed by a dean and supported by a college secretary and the six department chairpersons. The six departments are: the Biology, Chemistry, Humanities, Math-Physics-Statistics, Social Sciences and Nursing.

Other than instruction, the College also undertakes researches as well as conducts extension activities through its various departments in coordination with the Research and Extension Division of the University. A notable extension service conducted by the Department of Nursing in affiliation with the Department of Health was the periodic assistance of basic health services to the community. For 1992, among the significant faculty-student activities included the following: coordinated the participation of the University to the 9th Inter-school Science Quiz Show at UP-Baguio; re-organized and inducted the officers and members of the "Dulaang Biag", "Samahang Filipiniana", and Math-Physics-Stat Society"; celebrated the "Humanities Week" and "Linggo ng Wika"; presented the "Fiesta sa Nayon" by the Filipino major students and Samahang Filipiniana members; par-

ticipated in the University Frolics in celebration of the Diamond Jubilee; and coordinated the FESS Festival and gave scholarship awards to winners.

College of Education

The College of Education (CE) offers different curricula in the graduate and undergraduate levels of education leading to Doctor of Philosophy in Education, Master of Arts, Master of Arts in Teaching, Master of Science, Bachelor of Science in Agricultural Education, Bachelor of Secondary Education and Bachelor of Elementary Education. It also offers a curriculum leading to a Certificate of Physical

Education, and the secondary and elementary curricula under the SEDP and PRODED, respectively. The Secondary and Elementary Education Training Departments serve as training and laboratory schools for its student-teachers.

There are four instructional departments of the college: the Department of Elementary Education (DEE), Department of Secondary Education (DSE), Department of Agricultural Education (DAE), and the Department of Physical Education and School Sports (DPSS).

As an extension function of the College, it conducted



Students actively participate during the University Intramurals.

PBET review classes under the auspices of the Department of Agricultural Education. On the other hand, production activities were limited to crop production and canteen operation.

As a sort of enhancing closer and better relationship, the faculty and students of the college jointly undertook the following activities in 1992: assisted and assessed forms of enrolling students; encouraged and assisted pupils and students to participate in university, college and school activities; rendered counselling services to pupils; attended Regional Science Leadership Training; Regional FFP, FAHP, and FFPCC Work Conference, Provincial and Regional School Press Conferences, Regional Science Fair; Organized, supervised and advised student organizations and clubs; conducted school program and weekly/monthly celebrations; improved landscaping and beautification.

College of Forestry

The College of Forestry (CF) offers a general BS in Forestry curriculum.

During the year, a new dean was installed and minor reshuffling on the administrative structure and organization was made. To improve in-

structional competencies and management skills, some of the faculty members attended various trainings, seminars/workshops and conferences locally while another two are pursuing their doctoral and post-doctoral degrees, respectively, in the USA.

In line with its extension function, the college donated 2200 assorted seedlings to the Philippine Military Academy for their greening program in 1992. On the other hand, the college was able to produce 15,000 seedlings for the year 1992 for its dispersal program.

The college also had new acquisitions to support its laboratory activities. Among these were: 3 sets of soil sieves, stop watches, garden tools, projector screen and computer stool and pointing device.

College of Home Economics and Technology

The College offers one graduate program (M.Ed with majors in H.E and Practical Arts) and two undergraduate degree courses (Bachelor of Science in Home Economics and Bachelor of Science in Nutrition and Dietetics). It also offers Certificate in Home Management Arts which is aimed to develop skills and training for those who cannot afford to go into a four year

degree course.

Presently, the College has two departments: the Department of Home Economics and the Department of Human Nutrition and Foods, each headed by a chairman.

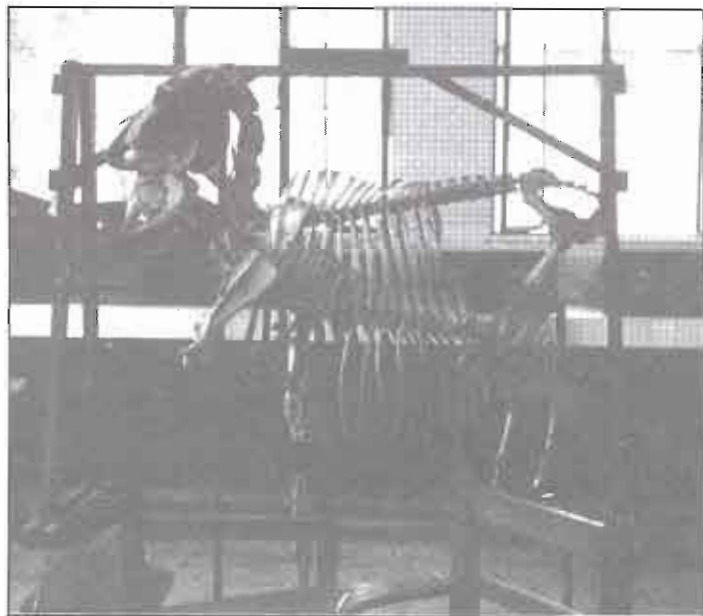
Moreover, two graduates of the College hurdled the Nutrition and Dietetics Board examinations given in 1991.

Several income generating projects are being managed by the College which also serve as training grounds for its students. These are the RSDC Cafeteria, Engineering Canteen, Food Processing Center, BSU Bakery, RSDC Guestel and Guest House (Home Management House).

College of Veterinary Medicine

The College of Veterinary Medicine (CVM) offers two degree programs; the Bachelor of Science in Animal Technology (BSAT) and the Doctor of Veterinary Medicine (DVM).

Six departments comprise the CVM, namely: Department of Anatomy; Department of Biology, Public Health and Pathology; Department of Physiology and Pharmacology; Department of Parasitology and Protozoology, Department of Medicine, Surgery and



Instructional specimen for the College of Veterinary Medicine.

Clinics, and Department of Zootechnics. During the year, a new college secretary assumed office to assist the dean in carrying out administrative matters and other related activities.

For SY 1992-1993, faculty members attended seminars, conferences and/or symposia related to veterinary medicine and public health in order to enhance their instructional as well as technical capabilities.

Among the College's faculty and students activities were: Veterinary Medicine Week which included Quiz show, seminar on animal diseases prevention; student mini-sports fest; farm visits and cheering competition during the University Intramurals.

STUDENT SERVICES

The Office of Student Affairs' (OSA) development thrust and function is to facilitate students' personal growth and development (human growth) through effective delivery of quality student services through its different service units, namely: Guidance and Counseling Office, Student Housing Office, Student Publication Office and Student Organization.

Significant Accomplishments

1. Facilitated and processed registration of both old and new student organization. An increase of eleven (11) new organizations registrants was noted this

school year: 86% comprised co-curricular organization. 14% comprised religious groups.

2. Attendance to and supervision of activities of major school organization.
3. Launching of Block Encounter Program (PROBE) for first years.
4. Launching of Interpersonal and Value Enrichment Learning Activities (ALIVE) program for BSU's residence halls.

5. Peer Counseling Training - Peer Facilitators were trained to assist in OSA's development program and guidance related activities of OSA.

6. Dormitory supervision through visitation, follow-up and periodic meeting with Dorm In-charge and residents.
7. Attendance to dialogues between students and student leaders and administration.
8. Lecture form series
Topics:
 - a. Cancer
 - b. Mental Retardation and Personality Development.

9. Finalized the organization of BSU-COSDAPP Council (Comprehensive School Based Drug Abuse Prevention Program)

10. Implementation of the 1992 National Drug Abuse Prevention and Control Week (University Wide).

11. Coordination of student NEEDS SURVEY (First year students and residents of dormitories).

12. Coordination of survey on student boarding houses and dormitories within La Trinidad.

Guidance and Counseling Services

The fundamental function of the Guidance and Counseling Office is to provide assistance to all students for the proper development of their potentialities: academic, vocational, social, religious, political, and economic pursuits. It is intended to compliment the instructional and administrative, as well as research and extension functions of the University.

Placement Services

The Placement Office provides job placement assistance to the University's students, graduates, and alumni.

Table 16. Guidance and Counseling Services

Services	Number of Clientele
I. Counselling Services	
a) Personal/emotional and family problems	43
b) Marital problems	16
c) Students with failing grades	42
d) Drop-outs and transferees	51
e) Clearance for absentee students	60
f) Clearance for Good Moral Character and Examination permits for CS/Board etc.	66
II. Testing Services	
a) Psychological tests on the 16 PF to Educ. 16 classes	63
b) Culture Fair Mental Ability Tests	63
c) Problems of Student Leaders	63
III. Follow-up and Referral Services	
a) Home Visitations	44
b) Hospital Visitations and Follow-ups	10
c) Referrals for action by other offices	8
IV. Information Services	
a) Orientation Seminars	College Freshmen
V. Other Activities	
a) Leadership training/seminar	Peer Counsellors
b) Career Orientation	Senior College Students
c) Resource speaker during Career Seminar	Senior HS Students
d) Devised the Block Encounter Program	Freshmen Groups
e) Coordinated series of lectures during the DRUG PREVENTION WEEK	Students
f) Assisted OSA in the implementation of the ALIVE PROJECT	Ladies' and Men's Dormitorians

It establishes linkages with employment agencies through inquiries and visits to nearby agencies for available employment.

Regular activities being undertaken by the office include assisting students to seek part-time job and conducting seminars or symposiums to orient graduating students on job priorities and career needs.

During the year under review, the office updated the records of graduates, surveyed employment needs, acted as liaison office between the student-applicant and the employment or recruitment agencies, held dialogues with students concerning proper



Dr. W. B. Mina facilitates the training of the Peer Counselors. These Peer Counselors serve as an arm of the Guidance Services in reaching out to students.

choice of vocation or specialization and launched seminars and conferences or job placement and employment.

Student Financial Aid Services

The number of scholars/study grantees enrolled in the University increased markedly during the second semester of SY 1991-1992. This is brought about by making available to students scholarship grants under the Selected Ethnic Group Education Assistance Program (SEGEAP) and the re-entry of slots for the study-now-pay-later-plan (SNPLP) given to SCU's. The number of scholars/study grantees under the different scholarship programs with their corresponding sponsors are presented in Table 17.

The Student Financial Aid Office assists scholars/grantees to facilitate



The Peer Counselors brainstorm on value dilemma. In such an experience, the students state that coming up with a decision is extremely difficult however, it is in such situations that they come to know who they are.

processing of documents and financial aid, and screens deserving students for availment of scholarship grants.

Residence Halls

The Ladies' and Men's Dormitories provide housing needs of students and some employees of the University.



The Ladies Dormitory

Table 17. Number of scholars/grantees for School Year 1992-1993

SPONSOR	Number of Recipients	
	1st sem	2nd sem
I. National Scholarship and Student Loan Center		
1. State Scholarship Program (SSP)	6	6
2. National Integration Study Grant Program (NISGP)	34	34
3. Selected Ethnic Group Educational Assistance Program (SEGEAP)	93	93
4. Study-Now-Pay-Later-Plan		
a. Land Bank of the Phil.	13	14
b. Dev't. Bank of the Phil.	8	9
Sub-total	154	159
II. SCU's /Administration		
1. Student Supreme Council	11	11
2. GLEE Club	32	30
3. Highland Cultural Troupe (HCT)	24	25
4. Reserved Officer Training Corps	13	13
5. Cordillera Bodong Administration (CBA-CAR)	56	55
Sub-total	136	134
TOTAL	290	293

For the year 1992, the Men's dormitory had an average monthly occupants of 102, 92 and 34 for the 1st, 2nd and summer terms, respectively, which had a comparatively decreased number of occupants of 13.56% and 23.97% during the first and second semesters of last year, respectively. Likewise, the Ladies' dormitory had an average monthly occupants of 148 (1st sem.), 146 (2nd sem) and 60 (summer term) in 1992 as compared to last year's 170 (1st sem), 162 (2nd sem) and 82 (summer) occupants, respectively.

UNIVERSITY LIBRARY SERVICES

The University Library Services (ULS) main function is to help build capabilities and competence of university students, faculty, staff, researchers and scholars through a well stock, relevant quality collection. It also aims to efficiently and effectively or-

ganize the library collections for maximum service to its clientele; provide appropriate and meaningful services and encourage lifelong education thru the use of library resources; prepare comprehensive literature searches and abstracting bibliographies; and establish linkages with foreign and local agencies, colleges and universities for the collection development program.

During the year under review, 1,976 volumes of books and other reading materials were added to the university library collections (Table 18). Other than these, there were also 6,296 volumes of assorted library resources added (Table 19).

Table 18. Books/periodicals and other materials received by the University Library for SY 1992-1993

	Number of Volumes
A. Books	
University Library (Main Library)	
Purchase.....	202
Gifts/donations.....	887
Secondary Library	564
B. Theses	170
C. Pamphlets	75
D. Serial Titles	
Gifts	38
Exchange.....	7
E. Microfiches	33
TOTAL	1,976

It was noted that there was an increase in the number of clientele who availed of the services being offered by the Library. For 1992, a total of 166,345 students, faculty and researchers utilized the library while 79,892 books were circulated.

Table 19. Number of volumes of library resources organized

	Number of Volumes
A. Titles classified/cataloged	1,653
B. Books Accessioned.....	1,653
C. Books pasted with book pockets/ date due slips.....	1,653
D. Added entries	345
E. Books repaired	143
F. Magazines recorded	350
G. Pamphlets bound	65
H. Updating vertical file.....	60
I. Journals for binding.....	374
TOTAL	6,296

Other library services offered include: library orientation lectures conducted for the freshmen; intra- library access thru library consortium among libraries in other schools/agencies to which there were 187 researchers who came to utilize the BSU libraries in 1992 while 190 BSU students/faculty were given library permits to use the libraries of other schools; preparation of literature searches and publication of bibliographies.

HEALTH SERVICES

The Health Services Division which is under the supervision of the Office of the Vice-President for Academic Affairs primarily caters to the health needs of the university population which is composed mostly of the students, teachers and employees and their dependents and others not connected with BSU.

For the year 1992, the significant accomplishments of the Division are presented in table 20.



The University Clinic provides health services not only to faculty, staff and students but also to nearby communities.

Table 20. Activities undertaken by the Health Services Division, 1992

	Number of Cases
I. Consultations	
a. Total number of students treated	1,333

b. Total number of faculty and employees treated	252
c. Total number of dependents treated	66
d. Total number of "outsiders" treated	19

II. Cases found by systems	
a. HEENT (Head, Eyes, Ear, Nose and Throat)	306
b. Respiratory	336
c. Cardiovascular	33
d. Gastrointestinal	149
e. Reproductive and Genitourinary	47
f. Integumentary	115
g. Skeleto-muscular	178
h. Nervous system	11

III. Immunization given	
a. Anti-rabies Vaccine (only for prophylactic purposes for Vet. Med. students prior to clinical exposure)	9
b. Anti-cholera-typhoid Vaccine	none

IV. Communicable Diseases	
a. Influenza	65
b. Measles	1
c. Chicken pox/herpes zoster	13
d. Mumps	9
e. Conjunctivities/hordeolum	20
f. Scabies, fungus, eczema, etc.	31
g. Hepatitis	10
h. Typhoid fever	15
i. Pulmonary tuberculosis suspects	5
j. Malaria	2

V. Accidents treated	
a. Accidents encountered in form of lacerated wounds, abrasions etc.	63
b. Accidents encountered in form of burns or inflammation	99

ADMISSION'S OFFICE

The main functions of the office are to file, update and safeguard the academic records of the students in the tertiary level. It also implements policies on admission and releasing of students as

defined in the BSU Code and DECS Memoranda covering state colleges and universities.

During the year in review, the office was able to accomplish the following activities: students were enrolled; list of student by degree were made; calendar of ac-

tivities was posted; records were updated; rating cards were mailed to parents; information dissemination through press or radio was undertaken; and prepared and submitted pertinent data required by other offices in the university and other agencies.



A campaign rally of students prior to election for the Student Supreme Council.



The Student Center Building which houses student organizations and serves as venue for various student activities.

RESEARCH SERVICES

As a regular function, research has been conducted to develop technologies and generate significant information in support to the instructional, extension, and production programs of the University.

Coordination of research has been done by the Office of the Director of Research which serves under the Office of the Vice President for Research and Extension. Specific research programs have been implemented by the Northern Philippines Root Crops Research and Training Center (NPRCRTC), Horticulture Research and Training Institute (HORTI), Institute of Highland Farming System (IHFS), Highland Agro-forest Institute (HAFI), and Highland Socio-economic Research Institute (HSERI).

RESOURCES

Manpower. The 131 employees who have been involved in research undertakings were maintained in 1992. There were 10 with professorial ranks, 7 instructors, 33 with science research positions, 42 laborers/utility workers, 11 with supportive positions, and 28 contractuels.

Facilities. A total area of about 66 hectares were utilized by the research and training centers/institutes for field experiments. The facilities used included 14 greenhouses, 4 storage houses, some laboratory rooms and buildings, and office, laboratory and field equipment.



Use of black plastic mulch is recommended for strawberry.

TECHNOLOGIES/SIGNIFICANT INFORMATION GENERATED

The following were developed in 1992 with ready applicability:

Vegetable Crops

1. Soil application of Agro-lig or humic acid at 250 kg/ha or Agro-lig plus foliar fertilizer Enersol containing 6% N, 14% P₂O₅, 4% K₂O + 3% humic acid could be used in place of chicken manure in cabbage production (P. B. Alipit).
2. Pole snap bean varieties BSU No. 1, Kentucky and Patig have high marketable pod yield (L. L. Tandang and D. P. Padua).

3. Bayleton, Curzate and Saprool fungicides are effective against bean rust (S. P. Milagrosa).
4. Release of *diadegma* as a parasite to diamondback moth show that it is highly adaptable under Benguet condition. Parasitism in January-April ranged from 15%-79% and 43%-93% in May to July (E. V. Cardona, Jr.).
5. The best maturity stage for harvesting fresh snap bean pods is when pods exhibit seed zones and the seed juice is in the gel stage of about 16 to 17 days from pod set (S. L. Kudan).
6. PS 613 oyster mushroom strain grown on pasturized cotton waste substrate has comparatively high yield (B. S. Tad-awan).
7. Shiitake mushroom strain 130 and BSU Strain 13 appear to have high yield on alnus logs and lowland wood sawdust substrate, respectively (B. S. Tad-awan).
3. Late blight resistant cultivar I-1085 without fungicide spraying and moderately resistant cultivar Montanosa at 21 days spraying interval had comparatively high yield and return on investment (J. C. Perez and T. C. Diccion).
4. Taro varieties Kalpao and Itchina grown under upland condition had high corm and cormel yield and return on investment (I. C. Gonzales, et al.).
5. Yam setts weighing 251-350 g as planting materials significantly yield higher than smaller setts (I. C. Gonzales, et al.).

Fruit Crops

1. Apple varieties Ana, Dorsett Golden and Rome Beauty were observed to have higher fruit yield than other test varieties (B. B. Dimas).
2. Use of black plastic mulch on strawberry reduced weeding cost and improves yield and quality thereby giving higher net return (E. T. Balaki).
3. Pruning yellowing old leaves at 50 days interval improves yield of strawberry and increases income (E. T. Balaki).
4. Bioassay test against Panama wilt and sigatoka, fungus diseases of banana, shows that tilt and *bacillus* spp. were the most effective in inhibiting the growth of the pathogens (A. L. Nagpala, et al.).
5. Selecron insecticide was the most effective against aphids, vectors of virus diseases of banana (B. S. Ligat).

Root Crops

1. White potato clones 87-442, 84-15, 8102-C-4-30-120, 8302-C-76-9, 8302-D-17-5, 8102-D-40, 8302-C-185, 80-10-34 and advanced cultivars CEW 69.1, CFM 69.1, and Yungay showed high late blight resistance and good yield (F. S. Balog-as).
2. Clones I-1039, LBR 1-9, LBR 1-5, and LBR 1-3 grown from apical cuttings out-yielded the check variety Granola using seed tubers (D. K. Simongo, et al.).

Ornamental Crops

1. Anthurium varieties BSU Selection No. 3 (white) and BSU Selection No. 1 (red) had the highest flower yield among test varieties with high consumer preference (A. G. Ladilad and B. D. Ladilad).
2. Statice applied with 70-70-70 kg NPK/ha at transplanting time produces high yield (B. D. Ladilad).

Farm Resources and Systems

1. In La Trinidad, Benguet, soils with 13.32 ppm P is a good growth medium for azolla (T. M. Merestela).
2. One part soil and two parts azolla compost is a promising medium for carnation flower culture (T. M. Merestela).
3. Although higher percentage of farrowing was observed under natural mating, higher weaning percentage was noted through artificial insemination in swine (D. Q. Casiwan, et al.).
4. Upgrades from landrace crossed with indigenous breed of swine had better feed conversion efficiency and were heavier than the other upgrades under farmers' system of feeding and management (D. Q. Casiwan, et al.).

Socio-economics

1. A high ROI is obtained when taro is planted in the rice paddy after a rice cropping. This finding shows that taro is not only an important food item and feed for swine, but also a

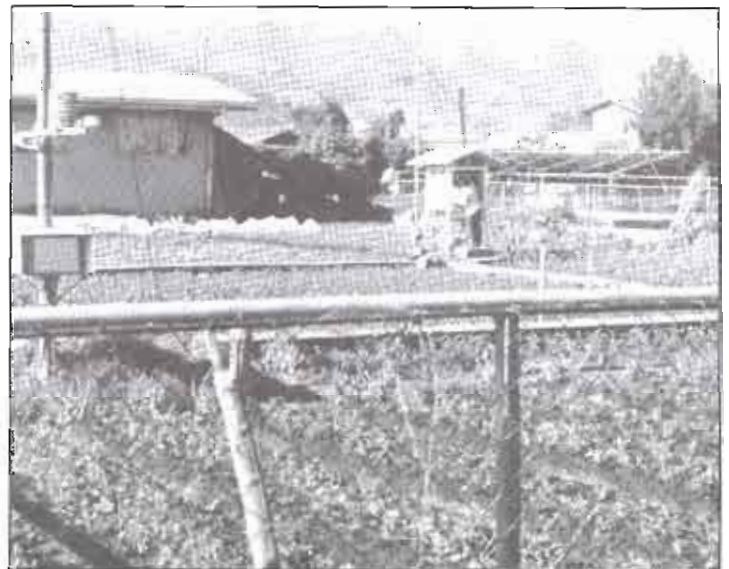
profitable cash crop to farmers (J. M. Sim and B. T. Gayao).

PUBLICATIONS

NPRCRTC. Assessment of potato clones using apical cutting by farmers in Benguet.

NPRCRTC. Potato apical cuttings: A promising tool for evaluation of breeding materials.

NPRCRTC. 1991. Working papers.



The BSU-PCARRD-PAG-ASA Agro-meteorological Station providing support to the instruction and research programs of the University.

COMPLETED AND ON-GOING RESEARCHES

A total of 129 researches were conducted by the research centers/institutes, 39 were completed and 90 on-going. These researches with their respective researcher(s) and funding agency(ies) are as follows:

Completed Researches

NPRCRTC

Title	Researcher	Fund Source	Title	Researcher	Fund Source
			<u>Taro</u>		
			Regional yield trial on taro, 1992	J. D. Dati	BSU-IDRC
			Efficacy of spacing on the spread of taro leaf blight caused by <u>Phytophthora colocasiae</u>	T. C. Diccion & J. C. Perez	BSU
			Socio-economic importance of taro in Benguet and nearby areas	J. M. Sim & B. T. Gayao	BSU
<u>White Potato</u>			<u>Yam</u>		
Evaluation of pathogen-tested and locally-sub-tested potato clones grown from apical cuttings (Series No. 3)	D. K. Simongo, G. Baucas, & V. E. Demonte-verde	BSU-CIP	Traditional production practices of taro in the Province of Benguet and La Union	J. M. Sim & B. T. Gayao	BSU
Management of potato late blight with a combination of varietal resistance and minimal fungicide application	J. C. Perez & T. C. Diccion	BSU	Cost and return analysis of ubi production	E. B. Alupias, B. T. Gayao, & J. M. Sim	BSU
<u>Sweet Potato</u>			<u>Minor Root Crops</u>		
Preliminary yield trial on sweet potato (Set N)	E. O. Badol, L. L. Tandang, & M. Baucas	BSU-IDRC	Postharvest handling, consumption, and utilization practices and problems of indigenous yams in Northern Philippines	V. B. Salda & B. T. Gayao	BSU-IFS
General yield trial on sweet potato (Set I, J, K)	E. O. Badol, L. L. Tandang, & M. Baucas	BSU-IDRC	Postharvest handling and utilization practices and problems of indigenous cocoyams in Northern Philippines	V. B. Salda	BSU-IFS
Advanced yield trial on SP in some multi-location testing areas in the highlands	E. O. Badol, L. L. Tandang, & M. Baucas	BSU-IDRC	Postharvest handling and utilization practices and problems of arrowroots, 'galuwaka' and other indigenous root crops in Northern Philippines	V. B. Salda	BSU-IFS
Regional yield trial on sweet potato, 1992	E. O. Badol	BSU-IDRC			
On-farm evaluation of introduced SP clones and assessment of farmers' varietal preference in Benguet and Mt. Province	J. D. Dati & L. L. Tandang	BSU-IDRC			

<u>Title</u>	<u>Researcher</u>	<u>Fund Source</u>	<u>Title</u>	<u>Researcher</u>	<u>Fund Source</u>
Postharvest handling, marketing, and utilization of ginger in Northern Philippines	V. B. Salda	BSU-IFS	Evaluation of fungicide against bean rust	S. P. Milagrosa	BSU
			Influence of stage of pod maturity on the shelf-life of snap bean	S. L. Kudan	BSU
HORTI					
<u>Vegetable Crops</u>					
Acceleration of flowering in carrot	P. E. Toledo	BSU	Vegetable seed production development in the highlands	P. E. Toledo	USAID, DA
Rate of green pod production in snap bean	C. P. Laurean	BSU	Fertilizer effects on the yield performance of cabbage	P. B. Alipit	Bounty Harvest Corp.
Seeding rate on snap bean	P. E. Toledo/ F. S. Borja	BSU	Pre-harvest treatments to improve quality of cabbage at harvest	P. B. Alipit A. B. Otculan	BSU
Effect of water stress in snap bean	P. E. Toledo/ F. S. Borja	BSU	Effect of combined insecticides on the control of diamondback moth and yield performance of cabbage	P. B. Alipit/ A. B. Otculan	BSU
Collection, identification and biology of insect pests and diseases of snap bean	S. P. Milagrosa E. V. Cardona, Jr.	BSU	Performance of Jew's Ear Mushroom with urea supplementation	B. S. Tad-awan	BSU
			Effect of number of holes on plastic container on mycelial growth and fruiting of oyster mushroom using raw cotton waste substrate	B. S. Tad-awan	BSU
			Performance of four oyster mushroom strains on pasturized cotton substrate	B. S. Tad-awan	BSU
			<u>Fruit and Plantation Crops</u>		
			Biological assay test of fungicides and <i>Bacillus</i> spp. against Panama wilt and Sigatoka leaf spot of banana	A. L. Nagpala	BSU
			Biology of banana aphids	B. S. Ligat	BSU



Oyster mushroom grown on cotton waste substrate.

Annual Report '92

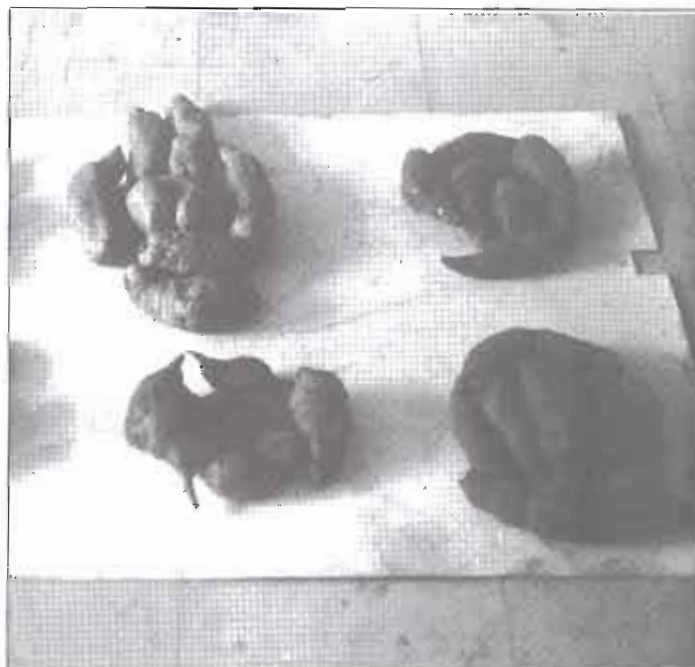
Title	Researcher	Fund Source	Title	Researcher	Fund Source
Performance of strawberry as affected by degree of leaf pruning	E. T. Balaki	BSU	b) Background for BW resistance and trichome traits		
The use of Black plastic mulch as a tool in reducing weeding cost	E. T. Balaki	BSU	Evaluation of early and advanced breeding materials for resistance to LB	Z. N. Ganga, D. K. Simongo, & F. S. Balog-as	BSU-CI
Effect of foliar fertilizer on the yield of strawberry	E. T. Balaki	BSU	a) TPS progeny evaluation		
Performance of strawberry as affected by frequency of leaf pruning	E. T. Balaki	BSU	b) Tuber families and selected clones (on-station)		
Evaluation of leading fungicides on the control of Grey mould (<i>Botrytis cinerea</i>) and powdery mildew (<i>Sphaerotheca macularis</i>) on strawberry	E. T. Balaki	BSU	c) Advanced clones (on-farm)		
			Evaluation of various germplasm using stem cuttings	D. K. Simongo, Z. N. Ganga, & V. E. Demonte-verde	BSU-CIP
<u>Ornamental Crops</u>			Multiplication and maintenance of selected varieties and cultivars of white potato	C. G. Kiswa & P. A. Dalang	BSU-CIP
Collection, varietal evaluation, cultural management and post-harvest studies on selected ornamental crops under upland conditions	A. G. Ladilad B. D. Ladilad	BSU	Varietal/clonal evaluation for stem cutting production	P. A. Dalang & R. B. Contada	BSU
Growth, flowering and yield of selected cutflower crops as affected by frequency of NPK fertilizer application	B. D. Ladilad	BSU	Response of white potato to chicken manure	W. L. Marquez & H. B. Torres	BSU
			Frequency of organic fertilizer application: Its effect on yield of WP and other crops	W. L. Marquez & H. B. Torres	BSU
<u>On-going Researches</u>			International late blight trial	J. C. Perez & T. C. Diccion	BSU-CIP
<u>NPRCRTC</u>			Survey and control of powdery scab	J. C. Perez BNCRDC	BSU-
<u>White Potato</u>			Assessment of greenhouses and field screening methods	T. C. Diccion	BSU-CIP
Breeding for LB resistance and adaptation to highland tropics	Z. N. Ganga & D. K. Simongo	BSU-CIP	Evaluation of virus techniques for the elimination of potato virus Y	G. S. Backian	BSU-CIP
a) Recurrent selection for LB resistance					



On-farm evaluation trials of new clones./cultivars of white potato.

<u>Title</u>	<u>Researcher</u>	<u>Fund Source</u>	<u>Title</u>	<u>Researcher</u>	<u>Fund Source</u>
Collection, isolation, and identification of <u><i>P. Infestans</i></u> in the highlands	J. C. Perez, T. C. Diccion	BSU	Influence of maturity and storability on the processing of WP	H. L. Quindara, A. D. Kiswa, & E. T. Botangen	BSU
Effect of organic fertilizer on resistance of BW	J. C. Perez	BSU	Survey on the extent of technology adoption on WP	S. T. Gayao & J. M. Sim	BSU
Evaluation of formaldehyde as control of <u><i>P. Solanacearum</i></u> in soil	J. C. Perez	BSU	Farmers' feedback on the use of advanced clones/cultivar	S. T. Gayao A. T. Botangen	BSU
Evaluation of indigenous plant materials for the control of fusarium rot and SP weevil	J. C. Perez	BSU	Demo-farm on WP production	S. T. Gayao	BSU
Biological control of <u><i>P. Solanacearum</i></u> using antagonistic organisms	T. C. Diccion & J. C. Perez	BSU	<u><i>Sweet Potato</i></u>		
Effect of lime and urea application on suppression of <u><i>P. Solanacearum</i></u> in the soil	G. S. Backian & J. C. Perez	BSU	Highland sweet potato (Phils.): On-farm evaluation and selection (Phase II)	Z. N. Ganga, B. A. Anselmo, & E. O. Badol	BSU-IDRC
			a) Germplasm evaluation and selection		
			b) General on-farm trials		
			c) Advanced on-farm trials		

<u>Title</u>	<u>Researcher</u>	<u>Fund Source</u>
d) Collection and evaluation of open pollinated SP seeds from farmers' field		
e) Production and evaluation of progenies from bi-parental crosses and polycrosses		
Methods of inter-cropping on sweet potato	W. L. Marquez	BSU-IDRC
Fertilizer study on WP and SP	W. L. Marquez	BSU
Response of SP clones and cultivars grown for single-node cuttings	I. C. Gonzales & C. G. Kiswa	BSU-CIP
Evaluation of high-node cuttings from different portion of the vine	C. G. Kiswa & H. B. Torres	BSU-CI
Comparison between the use of single-node cutting and vine cutting	C. G. Kiswa & I. C. Gonzales	BSU-CI
Vine lifting study on sweet potato	L. M. Pacuz & C. G. Kiswa	BSU
Influence of node number buried on the yield of sweet potato	I. C. Gonzales & C. G. Kiswa	BSU-CIP
Influence of age of mother plants on growth and yield of SP	C. G. Kiswa & I. C. Gonzales	BSU-CIP
Biology of insect pests of SP in the highlands	E. Pakipac & J. C. Perez	BSU
Yield and postharvest qualities of SP as influenced by planting season, maturity, and topping treatment	E. T. Botangen, A. D. Kiswa, H. L. Quindara, & V. B. Salda	BSU



Yield trials of several sweet potato cultivars.

Title	Researcher	Fund Source	Title	Researcher	Fund Source
Evaluation of SP clones and cultivars for eating and processing qualities	H. L. Quindara	BSU-CIP	Population dynamics and biology of major taro pests	G. S. Backian	BSU
Evaluation of SP clones and cultivars for leaf tip quality	H. L. Quindara	BSU-CIP	Fungicidal screening against taro leaf blight	T. C. Diccion	BSU
Evaluation of SP clones and cultivars for storage	E. T. Botangen & H. L. Quindara	BSU-CIP	Dehydration of taro chips and flour	E. T. Botangen & V. B. Salda	BSU
Development of SP as an agro-based rural industry: nata, vinegar and bakery products	H. L. Quindara & E. T. Botangen	BSU	Cooking methods to lessen itchiness in boiled taro: An evaluation of traditional practices	V. B. Salda	BSU
Socio-economic analysis of traditional SP production practices	J. M. Sim & B. T. Gayao	BSU	<i>Yam</i>		
Consumers' preference survey on SP products	J. M. Sim & E. O. Badol	BSU	Preliminary yield trial on yam	C. G. Kiswa & E. O. Badol	BSU
Participatory research on SP yield and varietal preference in Benguet	B. T. Gayao & E. O. Badol	BSU	Degeneration study on yam	G. A. Tianza	BSU
Sweet potato home-gardening technology development project	B. T. Gayao et al.	BSU UPWARDS	Evaluation of various storage methods of yam	A. T. Botangen & E. V. Bayogan	BSU-IFS
On-farm demo on the control of rats using active barrier system (ABS)	S. T. Gayao	BSU			
Establishment of SP household nurseries in the highlands	S. T. Gayao	BSU			
<i>Taro</i>					
Germplasm collection, maintenance, characterization and documentation of taro	J. C. Dati & R. B. Contada	BSU			
Preliminary yield trial on taro	J. G. Dati & R. B. Contada	BSU			
Regional yield trial on taro	J. G. Dati	BSU-VISCA			
Monthly harvest study on taro	H. B. Torres & I. C. Gonzales	BSU			



Sweet potato grown from single node cuttings.



The Highland Crop Research Station where plant breeding works are conducted.

	<u>Title</u>	<u>Researcher</u>	<u>Fund Source</u>
	HORTI		
	<u>Vegetable Crops</u>		
	Evaluation of post-harvest qualities of snap bean treated with different fertilizers	S. L. Kudan	BSU
	Prolonging snap bean pod shelf-life through several village level techniques after harvest	F. T. Bawang	BSU
	Hybridization and testing of garden pea cultivars	D. P. Padua/ L. L. Tandang	BSU
	Cultural, crop protection, and production economics studies on cabbage	P. B. Alipit, et al.	BSU
	Flower induction and seed production of cauliflower	P. E. Toledo	BSU
	Cultural, crop protection, and production economics studies on snap bean	F. S. Borja, et al.	BSU
	Germplasm introduction, preliminary and advanced evaluation of white potato for high elevations	D. P. Padua/ L. L. Tandang, et al.	IPB-BSU
	Field releases of parasitoid <i>Diadegma eucerophaga</i> Horstm. of diamondback moth in the highlands	E. V. Cardona, Jr.	ADB-PCARRD
	Approaches on management of clubroot on head cabbage	S. P. Milagrosa	GTZ-BSU
	Performance of shiitake mushroom strains on substitute bed logs	B. S. Tad-awan/ B. S. Ligat	BSU
	<u>Minor Root Crops</u>		
	Improvement of traditional processing methods of nami for chip quality	V. B. Salda	BSU-IFS
	Nutritional and anti-nutritional analysis of nami during processing and its residue in prepared traditional food items	V. B. Salda & F. Rodriguez	BSU-IFS
	Loss assessment during market handling of yambean and ginger	V. B. Salda	BSU-IFS
	Storage evaluation of yambean and ginger under highland condition	V. B. Salda	BSU-IFS
	Postharvest treatments on yam setts	E. T. Botangen & V. B. Salda	BSU
	Response of yam setts to calcium carbide as sprout stimulant	A. D. Kiswa & V. B. Salda	BSU

<u>Title</u>	<u>Researcher</u>	<u>Fund Source</u>	<u>Title</u>	<u>Researcher</u>	<u>Fund Source</u>
<i>Fruit and Plantation Crops</i>			<i>IHFS</i>		
Apple development project	B. B. Dimas	BSU	Massive upgrading of indigenous breeds of swine under farmers' system of management	D. Q. Casiwan M. K. T. Dagupen, et al.	Ford Fdn.- BSU
Screening insecticides against banana aphids	B. S. Ligat	BSU	Varietal trial on soybean	F. S. Borja/ M. K. T. Dagupen, et al.	Ford Fdn.- BSU
Establishment of citrus orchard in sloping areas in Los-oc, Tublay and Sablan, Benguet	A. C. Tipayno, et al.	BSU	High altitude rice field performance test	M. D. Cadatal	PHILRICE
<i>Ornamental and Medicinal Plants</i>			Collection, maintenance, and mass production of azolla	T. M. Merestela	NAAP-IRRI
Varietal evaluation, cultural management and postharvest studies on selected cutflower and ornamental crops under highland conditions	B. D. Ladilad/ A. G. Ladilad,	BSU et al.	Studies on suitability of La Trinidad soils as growth medium for azolla and azolla compost as growth medium	T. M. Merestela	NAAP-IRRI
Nutritional studies on selected ornamental crops	B. D. Ladilad/ A. G. Ladilad	BSU	<i>HAFI</i>		
Survey of herbal medicines and medicinal practices of cultural minorities in the Cordillera	B. D. Ladilad A. G. Ladilad	DOST-BSU	Study on inter-cropping/covercropping in coffee-pine based agro-forestry areas	B. B. Dimas	BSU
			Study on vegetative terracing in agro-forest areas	R. D. Colting	BSU
			<i>HSERI</i>		
			Management information system of socio-economic studies on highland agricultural and natural resources	M. K. T. Dagupen/ D. D. Tagarino	BSU



← *Apple growing of Ana, Dorsett Golden, and Rome Beauty varieties in the highlands is promising.*

Title	Researcher	Fund Source	Title	Researcher	Fund Source
RESEARCHES FROM DIFFERENT COLLEGES					
College of Agriculture					
Completed					
Effect of Different Temperature on the Growth of <i>Bacillus</i> sp	A.L. Nagpala	BSU	Parasitism Study on <i>A. pluteellae</i> & <i>D. semiclausum</i> Against DBM	L.M. Colting and L. Nabaysan	BSU
Pathogenicity test on Fusarium and Cercospora diseases of Banana	A.L. Nagpala	BSU	Potential Antagonist Crop Against Clubroot	S.P. Milagrosa and N. Cawitan	BSU
Plant Parasitic Nematodes Associated with Upland rice in the Philippines	L.M. Villanueva	IRRI	Effect of Lime Application & Age of Seedlings on Clubroot	S.P. Milagrosa and A. Baatan	BSU
<u>Meloidogyne graminicola</u> : Its effect on the growth and yield of upland rice	L.M. Villanueva	IRRI	Effect of Root Injuries and Antagonist Crop on Clubroot	S.P. Milagrosa	BSU
Evaluation of Insecticides Against Diamondback moth	L.M. Colting	Bayer Phil.	Establishment of Pest Incidence of Bananas in Benguet	B.S. Ligat and A.L. Nagpala	BSU
Survey, Pathogenicity and Control of Plant Parasitic Nematodes Associated with Strawberry in Benguet	L.M. Villanueva	IFS	Economic Injury Levels of Crucifers to DBM Infestation	B.S. Ligat	HADP
Survey and Identification of Major Diseases of Fruits and Plantation Crops in the Highlands	L.M. Villanueva	BSU	Survey on the Use of Illegal Pesticides by Farmers in Benguet and Mt. Province	B.S. Ligat et al.	BSU
Influence of <i>A. mellifera</i> Pollination on the Setting and Development of Strawberry Fruits	B.S. Ligat, L.M. Colting & L. Lab-oyan	BSU	Control of Resistant DBM by Coded Insecticides	B.S. Ligat	CARFI
Response of Oyster Mushrooms to Fruiting Incubation Position	J.S. Luis	CMDC	Survey on the Supervised Farming Program Needs of the College of Agriculture Students	L.M. Colting and J. A. Solimen	BSU
Utilization of wheat bean for Oyster Mushroom Bag Supplementation	J.S. Luis	CMDC	Isolation of Actinomycetes and Bio efficacy of <i>Bacillus subtilis</i> on Rhizoctonia induced diseases of white potato	A.L. Nagpala and R.K. Martim	BSU
Utilization of Palay and Barley Grains for Oyster Mushroom Spawn Production	J.S. Luis	CMDC	Efficacy Test of Cropspray on the Growth and Yield Performance of Cabbage	J.G. Balaoing	CropKing Chem. Inc.
			Comparative Study of Different Formulated Compost on the Growth and Yield Performance of Cabbage, Potato and Onions	J.G. Balaoing	None



Environmental degradation can be avoided through

<u>Title</u>	<u>Researcher</u>	<u>Fund Source</u>
Integrated Home Garden Project	R.P. Mula	UPWARD-CIP
Integrated Farm Research on the Agronomic Management of Ubi Production in Tublay and Tuba, Benguet	E.O. Sano	DAR-HADFI
<i>On-going</i>		
Cultural Management of Fusarium wilt of Garden Pea	A.L. Nagpala	BSU
Management of Clubroot	S.P. Milagrosa	BSU/HADP
Insect Pest of Snap Beans	E.V. Cardona	BSU
Chemical Screening Against the Pest of Cabbage	E.V. Cardona	Chem. Co.
Microbial Control of DBM	B.S. Ligat	CARFI

<u>Title</u>	<u>Researcher</u>	<u>Fund Source</u>
Utilization of Marnix Fertilizers on Selected Vegetable Crops	C.P. Laurean	Jobins Enterp.
Utilization of Lakas Ani Bio-organic and Bionic Foliar Fertilizer on Chinese Cabbage	M.M. Marquez	FAST
Influence of KNO ₃ Foliar Spray on White Potato	M.M. Marquez	None
Socio-economic and Baseline Survey of Farming System in the Cordillera	H.C. Perez	RP-German Fruit Tree Program
An Agro-economic Assessment of Seed potato Storage	E.O. Sano	GIP
Technology in the Philippines (Diffused Light Storage)	R.P. Mula	UPWARD-CIP



the development of agro-forestry based farming systems technologies.

Annual Report '92

Title	Researcher	Fund Source	Title	Researcher	Fund Source
Effect of Temperature Stratification on Incubation of Oyster Mushroom	J.S. Luis	CMDC	Rhizobium Studies in Snap Beans	T.M. Merestela	BSU
Interaction Studies on Nematodes and Wilt Diseases of Bananas	L.M. Villanueva	BSU	Snap Bean Technoguide Refinement Verification Trials on Fertilizer	R.D. Colting	None
Studies on <u>Pasteuria penetrans</u> as a Biological Control Agent for Nematode Pests of Strawberry and Vegetables in the Highlands	L.M. Villanueva	None	Long Term Study on Growing Highland Vegetables Through Organic Farming	R.D. Colting	BSU
Effect of leguminous crop residues used as organic amendments in soil infested with <u>Fusarium spp.</u>	A.L. Nagpala	None	Study on Irrigated Ubi Production in Lamtang, La Trinidad, Benguet	E.O. Sano	HADFI
Varietal Trial on Crucifers	M.D. Cadatal	Allied Botanical Corp.	College of Education		
Gladiolus Corm Improvement Program in Shilan, La Trinidad	A.G. Ladilad F.R. Gonzales	HADP	<i>On-going</i>		
Effect of Prosol on the Growth and Yield of Some Selected Highland Vegetables	S.L. Kudan	Chem. Co.	Adaptability Trial of New Japanese Strawberry (J. Y) under La Trinidad Conditions	Secondary Laboratory Faculty	BSU
The Impact of the Closure of the U.S. Bases on the Vegetable Industry in the Cordillera	F.T. Bawang and J.A. Solimen	DOST	Effect of Irrigation Technique on Growth and Yield of Strawberry	- do -	BSU
Physio-chemical Changes Related to Senescence in Cut <u>Anthurium andreanum</u> (cv. Kaumana)	N.R. Palispis	Faculty Research	Growth and Yield Comparison of Four New Strawberry Varieties	- do -	BSU
Growth and Yield Comparison of 4 Strawberry Varieties	A.C. Tipayno	BSU	Causes of Drop-outs Among BSU College Students	D.S. Garin	BSU
Production of Highland Mandarin	A.C. Tipayno	BSU	Factors Affecting Absenteeism Among BSU College Students	- do -	BSU
Cropping Pattern-Organic Farming Scheme Under Potato- Based Farming	J.G. Balaoing	None	Learning Styles and Study Habits of Undergraduate Students	- do -	BSU

Title Researcher Fund Source

College of Veterinary Medicine

Completed

Use of Heat Extruded Soybean Meal as Main By-pass Protein Sources in Feedlot Cattle Concentrate J. Quinto and A.V. Castrence BSU

The Study on the Use of Processed Whole Cotton Seed as Main By-pass Protein in Feedlot Cattle Concentrate L.A. Nerona, Jr & J.Y. Pol-as BSU

Determination of Veterinary Services, Needs and Awareness of Animal Raisers of La Trinidad, Benguet C.S. Battad CVM-BSU

On-going

Hematological Changes and EPG as Diagnostic Tools in Fascioliasis C.S. Battad & M.N. Alvaro CVM-BSU

College of Arts and Sciences

On-going

Preparation of Agarose by Electrolysis of Agar from Gracilaria G-16 A.M. Corpuz UP-Diliman Graduate Assistantship

Interaction of Boron, Fertilizers and Chicken Manure on Different Crops R.B. Castillo Self-financed

Isolation and Characterization of the Principle of Drimeys Piperita f (sapal) that could lead to the Symptomatic Relief of Diarrhea L.P. Pladio DOST

Code-switching in the College of Arts and Sciences, BSU: L.A. Belao

Reasons and Strategies B.A. Minong D.P. Wandit Self-financed



Harvesting of strawberry fruits is done during the proper stage of fruit maturity.

Title Researcher Fund Source

Perception of Students on Code-Switching of Faculty in the College of Arts and Sciences E.M. Lacamento B.A. Minong D.P. Wandit Self-financed

Ideology and Ethnicity J.F. Lacanaria and PSSC BSU Thesis Aid

Faculty Evaluation by Students SY 1990-1991 Math-Physics-Stat Faculty

College of Forestry

On-going / suspended

Assessment of Decay of Trees in the BSU Campus Faculty research BSU

Assessment of Pest Infestation on Agoho in the BSU Campus Faculty research BSU

Assessment of Seedling Diseases in the BSU-CF Nursery Faculty research BSU

Title	Researcher	Fund Source	Title	Researcher	Fund Source
<i>College of Home Economics and Technology</i>					
Bareroot Production of Selected Reforestation Species	Faculty research	BSU	<i>On-going</i> Evaluation of Foodservice Establishment in Baguio City and La Trinidad	Faculty research	BSU
Time and motion studies in the CF Nursery	Faculty research	BSU	Mami Flour Utilization	Faculty research	BSU
Regenerative capacity of Benguet Pine After Burning	Faculty research	BSU	Product Development of White Potato as Snack Food	Faculty research	BSU

PROPOSED RESEARCHES

Research proposals on crops, livestock, and socio-economics were submitted to funding agencies for evaluation and fund support.

RESOURCE DEVELOPMENT

Improving the research capability of the institution has been done with 21 research personnel pursuing either doctoral or masteral studies. Researchers also attended relevant seminars, workshops, symposia, fora, conferences and trainings.

Some equipment were acquired and facilities repaired/constructed to facilitate implementation of research projects.

LINKAGES

The University maintains collaborative linkages with the

following agencies to promote its research and development programs:

- Philippine Council for Agriculture, Forestry and Natural Resources Research and Development (PCARRD)
- International Foundation of Science (IFS)
- International Development Research Center (IDRC)
- International Potato Center (CIP)
- Southeast Asian Potato Program for Research and Development (SAPPRAD)
- Ford Foundation (FF)
- Institute of Plant Breeding (IPB)
- Visayas College of Agriculture (VISCA)
- Jaime V. Ongpin Foundation, Inc. (JVOFI)
- National Azolla Action Program (NAAP)
- International Rice Research Institute (IRRI)
- Philippine Rice Research Institute (PHILRICE)
- Philippine Textile Re-

- search Institute (PTRI)
- Highland Agriculture Development Project (HADP)
- Central Cordillera Agriculture Project (CECAP)
- Department of Agriculture (DA)
- Department of Environment and Natural Resources (DENR)
- Department of Science and Technology (DOST)
- Farmers' Associations
- Local Government Offices
- National Statistics Office (NSO)
- Other Research and Development Agencies/ Institutions/Organizations

AFFILIATE AGENCIES

Highland Agriculture and Resources Research and Development Consortium (HARRDEC).

In 1992, the Consortium with BSU as the base agency

had these accomplishments:

1. Coordinated the conduct of member-agency in-house research and development review.
2. Coordinated conduct of a workshop in the updating of Agriculture and Fisheries Research and Extension Agenda for CAR 1993-1997.
3. Published maiden issues of Techno Tips and Techno Bulletin.
4. Conducted an echo seminar-workshop/training on Rural-based Enterprise Development.
5. Packaged and endorsed research proposals.
6. Updated inventory of researches and abstracted results.
7. Conducted consultative meeting in the establishment of a Regional Agriculture and Resources Development Information Network.
8. Passed resolution regarding vegetable crop zoning in Benguet and Mountain Province.
9. Executed supplemental Memorandum of Agreement for membership of the Bureau of Plant Industry in the Consortium.

Highland Crops Research Station (HCRS).

Jointly managed by BSU and IPB, the Station continued in 1992 its crop improvement R & D activities on white potato, garden pea and snap bean, crucifers and other semi-temperate vegetables, tomato,

and strawberry, Selected/developed varieties with good

quality and high yield shall be mass produced.

RESEARCH INCOME	
<i>NPRCRTC</i>	<u>Amount Remitted (P)</u>
c/o E. T. Balaki	17,265.00 ¹
c/o I. C. Gonzales	2,400.00 ²
c/o J. C. Perez	255.00
Sub-total	19,920.00
<i>HORTI</i>	
c/o P. B. Alipit	5,054.00 ²
c/o B. S. Ligat	5,200.00 ²
Sub-total	10,254.00
<i>HAFI</i>	
c/o B. B. Dimas	540.00 ²
TOTAL	30,714.00

¹June 1991 - April 1992 Note: Research Incomes were also presented in table 33.
²Calendar year 1992



The NPRCRTC Research Force headed by the Center Director, Prof. Edwin T. Balaki.

EXTENSION SERVICES

The extension mandate of the University has been carried out by the Extension and Training Office in coordination with the various divisions of the University and other agencies by working directly with the target clientele includes farmers, housewives, out-of-school youths, development agents, extension workers, students and specialized groups.

To improve the knowledge and skills of the end-users, mature technologies, farm management practices, and valuable information needed for development were disseminated through trainings, seminar-workshops, fora, meetings, demonstrations, farm visits, tours, and mass media.

The following were the extension service accomplishments in 1992:



On-farm consultation is one of the technical services being provided by BSU experts to farmers who are in need of technical assistance.

TRAINING PROGRAMS

	No. of Participants	Involved/ Sponsor
Integrated Pest Management	60	BSU, ATI-NTC.
Improved Cultural Practices of Strawberry	31	BSU, ATI-NTC, Hoechst Phils.
Ecological Awareness and Ecological Training	40	BSU, ITAG LGUs
Training on Environment Management	30	BSU, ATI-NTC

FORUM/SYMPOSIUM/CONSULTATION

	NO. OF PARTICIPANTS
Press Briefing on the Biological Control, IPM of Diamondback Moth	37
Symposium on Environmental Conservation in Mt. Province	90
Planning Consultation, PPDO-CAR	35
Regional Task-force Consultation on Cyanide Use	-

OUTREACH PROJECTS

	Place	No. of Clientele
Seminar-workshop on Sweet Potato Technology (NPRCRTC)	Puguis Elem. Sch., La Trinidad, Benguet	98
-do-	Lucban Elem. Sch. Baguio	87
Farmers Consultation (ETO, CA)	On-farm	80
Crop Protection Services (CA)	-do-	10
Bio-intensive gardening (ETO)	Marishan Sch., Baguio	1 demo garden
Animal Vaccination Drive (CVM)	Baguio & La Trinidad, Benguet	3,000 animals vaccinated

PUBLICATION

Crop Protection and Cultural Management Studies on Strawberry (1992) - E. T. Balaki



NPRCRTC researchers are also tapped to conduct extension services particularly on root crops production. Photo shows the researchers as they rest in a farmer's house.

OTHER EXTENSION ACTIVITIES

1. Display of exhibits on technologies/significant information during the University Day, PASUC Silver Anniversary, BSU Diamond Jubilee Celebration, and Cordillera Day (RO, NPRCRTC, ETO).
2. Linkage/tie-up projects on handicraft training, nutrition, and local governance (ETO).
3. Sweet potato and taro planting material dispersal in Benguet, Baguio, Ifugao and Nueva Vizcaya (NPRCRTC).
4. Soil testing and disease identification for farmers (NPRCRTC).
5. Visitor services by providing research and development briefing and tour to facilities and project (RO, NPRCRTC, ETO).

Legend:

ATI-NTC	-- Agricultural Training Institute-- National Training Center
ITAG	-- Igorot Tribal Assistance Group
LGUs	-- Local Government Units
NPRCRTC	-- Northern Philippines Root Crops Research and Training Center
ETO	-- Extension and Training Office
RO	-- Research Office
CA	-- College of Agriculture
CVM	-- College of Veterinary Medicine

Table 21. Expert services rendered in 1992 by the different colleges/offices

SERVICE/ TOPIC DISCUSSED	DURATION	SPONSOR	PERSONNEL INVOLVED
College of Agriculture			
1. As Resource Person			
Career Opportunities for Aggie Graduates	March 14, 1992	BCF	L.M. Colting
Environmentally Friendly Pest Management Strategies	Nov. 23, 1992	KEF	L.M. Colting
Chemical Control in Integrated Pest Management	October 23, 1992	HADP	L.M. Colting
Pest Control Strategies	Nov. 28, 1992	NTC-ATI	L.M. Colting
<i>Meloidogyne graminicola:</i> Its Effects on the Growth and Yield of Upland Rice	CA Monthly Seminar Series	CA- BSU	L.M. Villanueva
<i>Meloidogyne graminicola:</i> Its Effect on the Growth and Yield of Upland Rice	Oct. 23, 1992	IRRI	L.M. Villanueva
Judicious Use of Pesticides and Handling Ecological Awareness and Agro-Ecology	Oct. 23, 1992	HADP	B.S. Ligat
Pest Management on Highland Vegetables and Rice	Nov. 28, 1992	NTC-ATI	B.S. Ligat
Farmers Consultation on Pest Management	August 13, 1992	CRC	B.S. Ligat
Ecological Awareness & Agro-Ecology	Aug. 26, 1992	ITAG-ATI	B.S. Ligat

SERVICE/ TOPIC DISCUSSED	DURATION	SPONSOR	PERSONNEL INVOLVED
IPM on Highland Vegetables and Rice	Oct. 20, 1992	HADP	B.S. Ligat
IPM on Highland Vegetables and Rice	Oct. 24, 1992	HADP	B.S. Ligat
Integrated Pest Management	Nov. 17, 1992	ATI-NTC	B.S. Ligat
Integrated Pest Management	Nov. 24, 1992	ATI-NTC	B.S. Ligat
Diseases and their Control on Selected Vegetables	Nov. 23, 1992	KEF	A.F. Bulacso
National Symposium on Tristeza Leaf Mottling and Other Major Diseases of Citrus in the Philippines		PPS-NLD	A.F. Bulacso
Biocon of DBM	Sept. 16, 1992		E.V. Cardona



A farmers' seminar on upland vegetable farming, one way of disseminating mature technologies from the University to the farmer-clienteles.

SERVICE/ TOPIC DISCUSSED	DURATION	SPONSOR	PERSONNEL INVOLVED
Biocon of DBM	Oct. 23, 1992	HADP	E.V. Cardona
Bacterial Wilt Detection in the Soil	June 1-6, 1992	SAPPRAD	J.C. Perez
Assessment of RRA and RMP	Nov. 13-14, 1992	HARRDEC- PCARRD	J.C. Perez
Pesticide Safety Handling		BSU	S.P. Milagrosa
Ubi Seed Production Technology Transfer and Harvesting and Storage of Ubi Production	December 1992	HADFI	E.O. Sano
Agronomic Management of Ubi Production	May 8, 1992	HADFI	E.O. Sano
Result and Method Demonstration	December 1992	NTC-ATI	J.A. Solimen
Rural Rapid Appraisal: An Overview	Dec. 13-17, 1992	NTC-ATI	R.P. Mula
Some Methodological Issues in Social Research	May 4, 1992	UPWARD	R.P. Mula
In Situ Seedbanking of Sweet Potato: The Case of Bayo.	CIKARD Sept. 21-25, 1992	IDRC	R.P. Mula
Training on the Conduct of Socio-economic Research and Analysis of Data	Oct. 5, 1992	ERDB/ DENR	R.P. Mula
Preparation of Social Science Research Proposal	Nov. 20-23, 1992	DOST	R.P. Mula
Strawberry Production	July 21, 1992	BSU-NTC- ATI	E.T. Balaki

SERVICE/ TOPIC DISCUSSED	DURATION	SPONSOR	PERSONNEL INVOLVED
Concepts of Farming Systems and Farming Systems Integration with Agro-forestry	July 22-25, 1992	HADP	F.T. Bawang
Farming Systems (An Overview) as Family Extension Approach to Agricultural Technicians and Researchers of the DA in the Cordillera	Dec. 13-17, 1992	NTC-ATI	F.T. Bawang
Use of Pine Needles as Mulch	January 12, 1992	CA-BSU	F.T. Bawang
Agriculture as a Science and as a Livelihood Industry	March 12, 1992	ROTARY CLUB OF LA TRINIDAD	F.T. Bawang
Rice R & D in the Highlands	July 13, 1992	FAO	M.D. Cadatal
Gladiolus Production	Sept. 14-18, 1992	NTC-ATI	F.R. Gonzales
Vegetable Production in the Highlands	July 13, 1992	FAO	S.L. Kudan
Anthurium Production Technology	Sept. 14-28, 1992		A.G. Ladilad
Overview of Cutflower Industry	Sept. 14-28, 1992	NTC-ATI	A.G. Ladilad
Chrysanthemum and Rose Production in the Highlands	Sept. 14-28, 1992	NTC-ATI	A.G. Ladilad
Highland Vegetable Seed Production	Sept. 25, 1992	UNDP	P.E. Toledo
Proper Conduct of Parliamentary Procedure	Dec. 1-3, 1992	DECS-CAR	A.C. Tipayno

SERVICE/ TOPIC DISCUSSED	DURATION	SPONSOR	PERSONNEL INVOLVED
8th Annual FCSSP Scientific Conference	May 24-28, 1992	FCSSP	R.D. Colting
6th International Symposium on Microbial Ecology	Sept. 11-14, 1992	ICOME/ UNESCO	T.M. Merestela
27th International Geographical Congress	Aug. 9-15, 1992	IGC	R.D. Colting
Swine Care and Management	Aug. 1, 1992	DENR-CAR	S.B. Maddul
Goat Care and Management	Aug. 1, 1992	DENR-CAR	B.B. Luis
Swine Selection, Breeding and Management	May 4-9, 1992	AKAP	M.B. Walsiyen
Feed Formulation	May 23, 1992	AKAP	M.B. Walsiyen

Office of Student Affairs

PMHA's Mental Health and the Filipino Family in Crisis	Feb. 2-8, 1992		Dr. R. Genabe
SOFAD Youth Forum	Oct. 17-18, 1992		Dr. W. Mina
ATI-NTC's Institutional Capability Development Course	Aug. 17-22, 1992		Dr. W. Mina
1992 DOST Regional Leadership Training	July 30 - Aug. 1, 1992		Dr. W. Mina
ATI-NTC's Training on Human Relations and Communication	Sept. 2, 1992		Dr. W. Mina
Project Management Course for Barangay leaders of Abra	Sept. 15-17, 1992		Dr. W. Mina



Visitors being briefed on citrus production.

Table 22 . Other services rendered by the different colleges/offices in 1992

SERVICE/	DURATION	SPONSOR	PERSONNEL INVOLVED
<i>College of Agriculture</i>			
Evaluator, Crop Researches Regional In-house Review	May 20-21, 1992	DA-CAR	J.S. Luis
Panelist, Research Proposal Critiquing	Aug. 7, 1992	DA-CAR	J.S. Luis
Chairman, Board of Judges Science Investigatory Projects	Oct. 23, 1992	BSU	J.S. Luis
Panelist, Critiquing of Investigatory Project Write-up Preparation-CAR Regional Science Fair and Quiz	Nov. 3-6, 1992	CAR	J.S. Luis

SERVICE/	DURATION	SPONSOR	PERSONNEL INVOLVED
Coach, BSU Elem. Dept. entries to CAR Regional Science Fair and Quiz	Nov. 3-6, 1992	BSU	J.S. Luis
Diagnosing Pests and Diseases	BSU		All crop prot. faculty members
Critiquing of Research Proposals	Aug. 7, 1992	DA-CAR	E.T. Balaki
Evaluator, Research Proposals of Technicians of DA-CAR	Aug. 7, 1992	DA-CAR	F.T. Bawang
Evaluator, Research In-house Review	July 2-3, 1992	HARRDEC-BSU	F.T. Bawang
Judge, Parliamentary Contest FFPCC Local Convention		BSU	F.T. Bawang
Coordinator, Shilan Cutflower Growers Association Incorporated			F.R. Gonzales
Consultant, Soils and Plant Nutrition, RP-German Fruit Tree Program	July 1992 - June 1993	BPI	R.D. Colting
Project Director, Survey, mapping and planning project at Dalupirip and Binga, Itogon	Dec. 1991-April 19	DENR-CAR	R.D. Colting
Project Director, Monitoring and Evaluation and Inspection Chart Mapping of Reforestation Projects of DENR-CAR at CENRO Pacdal, Baguio City	Oct. 1991-March 19	DENR-CAR	R.D. Colting
BSU In-House Review	July 2-3, 1992	HARRDEC-BSU	R.D. Colting

SERVICE/	DURATION	SPONSOR	PERSONNEL INVOLVED
Facilitator, Short-term Training Program on Administration and Accounting for Nepali Trainees	April-July 1992	GTZ	C.P. Laurean
Member, In-house Research Review	May 25-27, 1992	DENR-CAR	S.B. Maddul
Member, Research Proposal Critiquing	Aug. 7, 1992	DA-CAR	S.B. Maddul
Member, Regional R & D Planning Workshop	Sept. 10-11, 1992	DA-CAR	S.B. Maddul
Member, In-house Research Review	Nov. 17-18, 1992	HARRDEC/ PCARRD	S.B. Maddul

College of Home Economics and Technology

Coordinator, Seminar on Napkin Folding and table setting	Nov. 14, 1992		Faculty
Resource person, seminar on Cafeteria Mgt. for NATCEMCI members and workers	April 21, 1992		Faculty
Working committee member, MCBP Training	May 18-23, 1992		Faculty
Guest speaker, NDAP Ind. Program	July 31, 1992	NDAP	Faculty
Evaluator, Kalinga State College Faculty Evaluation	Oct.-Nov., 1992		Faculty

College of Education

Coach, CAR softball (women), NCL PRISAA Athletic Competition	Jan. 15-17, 1992	NCL	D.S. Garin
--	------------------	-----	------------

SERVICE/	DURATION	SPONSOR	PERSONNEL INVOLVED
Coach, NCL Softball, National PRISAA	Feb. 2-13, 1992	WV	D.S. Garin
Coordinator, PRODED, SEDP, Seminar-workshop	Jan. 20-22, 1992	CE, DAE, DECS	P.J. Fernandez
Coordinator, PRODED, SEDP Seminar-workshop	Nov. 9-11, 1992	CE, DECS	S.M. Celino F.S. Comila R.M. Bocalan
Coordinators and facilitators, Fundamental Training	Oct. 26-30, 1992	BSP, CE	S. Serrano P. Fernandez F. Ta-a T. Rimando
<i>Office of Student Affairs</i>			
CARAA Camp Director, Benguet Delegation	Feb. 4-9, 1992		Dr. W. Mina
CARAA, Chief, Clerk of Course	Feb. 4-9, 1992		Dr. S. Serrano
Palarong Pambansa, Course Leader	March 1992		Dr. S. Serrano
BSP Conference Workshop (Benguet Council)	March 5, 1992		Dr. W. Mina
BSP Benguet Council Executive Board Membership	Jan.-Dec., 1992		Dr. S. Serrano Dr. W. Mina
1992 Benguet Provincial Meet Member: First Aid Committee Member: Basketball Officials	Dec.13-17, 1992		Dr. W. Mina
B. As Resource Speaker/Facilitator			
Induction Program and Ball of CAT-1 unit, Easter School, Baguio City	July 24, 1992		Dr. W. Mina

PUBLICATIONS AND MEDIA SERVICES

In performing its function in taking charge of the regular University publications, extending editorial and clerical assistance, facilitating the publication of research findings, and doing activities related to extension and information dissemination, the Publications and Media Services had these accomplishments in 1992:

Publication and Dissemination of:

1. The BSU Facts and Figures

2. The BSU Student Handbook and Code of Ethics
3. General Information Bulletin for Students (1991-1992)

Prepared Articles and Photos for:

1. BSU Newsletter
2. BSU Research Journal
3. Highlights of the BSU Diamond Jubilee Celebration

Other Services

1. Helped organize the Cordillera Writers Foundation of the Philippines, Inc.
2. Extended printing, typing, mimeographing, and binding service in the University and other sectors.
3. Disseminated information and sent message to institutions, offices or individuals.
4. Did extension work through counseling services.



SPECIAL PROJECT

AGRICULTURAL TECHNOLOGY EDUCATION PROJECT

The Agricultural Technology Education Project (ATEP) or simply Agritech Project is a nationwide project with a main objective of producing technically equipped agricultural entrepreneurs. Its operation is under the auspices of the Education Development Project Implementing Task Force (EDPITAF) of the DECS. It is supposed to be instrumental in the rationalization of the Agricultural Education System in the Philippines.

Thus, ATEP follows a hierarchical structure where there is a National Agricultural College (NCA), followed by Zonal Agricultural Colleges (ZAC), then the Regional Agricultural Colleges (RAC) and Provincial Technical Institutes of Agriculture (PTIA).

BSU belongs to the category of a RAC. As such, it is tasked among others to do research but primarily on verification trials, as well as do some technopack-

aging. These are in addition to one of its major role of helping two (2) PTIA's upgrade their technical capability. The BSU-ATEP became operationalized in 1989.

Accomplishments:

A. Research

1. Completed

- a. Evaluation of Strawberry Lines
- b. Nitrogen Fertilization of White Potato Stem Cuttings
- c. Fertilization of White Potato in Tanay, Rizal (In cooperation with RCAT)
- d. Chrysanthemum Adaptability Test in Tanay, Rizal (RCAT)

2. On-going

- a. Cost and Return Analysis of Producing Various Vegetable in a 1/4 ha. area.
- b. Cropping Pattern Scheme Involving Selected Vegetables.
- c. Fertilization of White Potato in Tanay, Rizal (Continuation)



Part of the BSU-ATEP technoverification studies on selected vegetable crops such as white potato, snap bean, garden pea, Chinese cabbage and onion.

- d. Continuation of Strawberry verification study in RCAT, Tanay, Rizal

3. Set to be started (or continued) for 1993

- a. Technoverification of Broiler Production
- b. Technoverification of Duck Production
- c. Breeding and Upgrading in Pigs
- d. Survey and Documentation of Pests and Diseases of Banana in Benguet
- e. Chrysanthemum Technoverification Studies
- f. Technoverification Studies on White Potato Using Stem Cuttings.
- g. Strawberry Evaluation Trials

4. Proposed

- a. Technoverification on Strawberry
- b. Verification Trial on Integrated Swine-Vegetable Farming System
- c. Village-Based Mushroom Production in the Highlands
- d. Passion Fruit Technoverification Trials

B. Extension

- 1. Continued assistance to the Ilocos Sur Agricultural College in the field of research
- 2. Set-up cooperative research undertakings with the Rizal College of Agriculture Technology
- 3. The following in-

fotechs/technoguides were made and to be reproduced for CY 1993:

- a. How to Grow Carrot
- b. Guide to Flowering Pechay Production
- c. Guide to Garden Pea Production
- d. Guide to Snap Bean Production
- e. Guide to Chinese Cabbage Production
- f. Guide to Cabbage Production

C. Production

Most of the research activities of the BSU-ATEP are expected to be income generating. This should allow the plowing back of the used capital to the project thus, sustaining its operation for the following year.

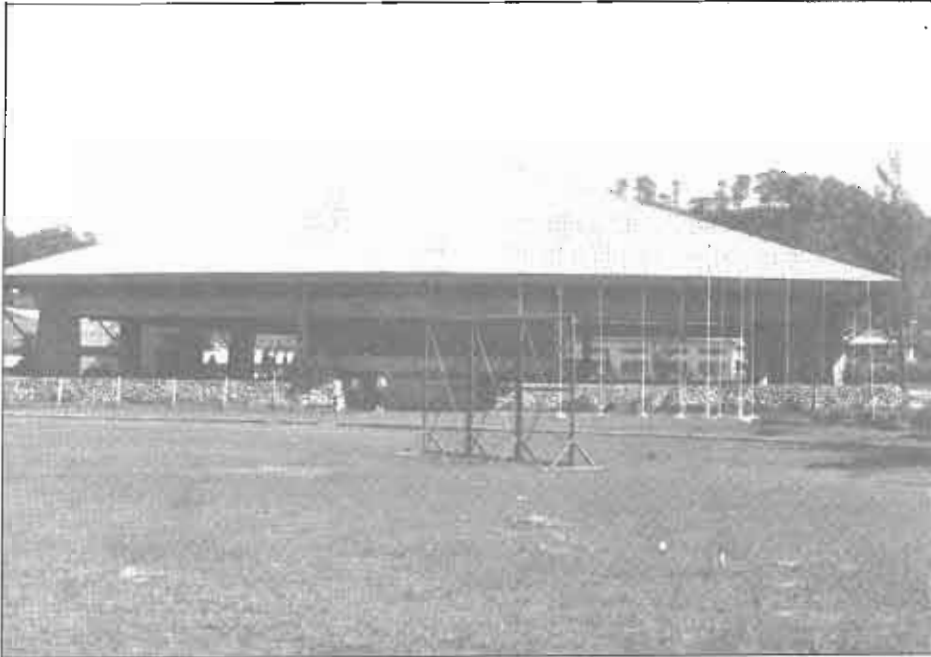


Photo shows BSU President Lucio B. Victor demonstrating how to properly apply chicken dung before planting strawberry in Rizal College of Agriculture and Technology, one of the two provincial technical institution of agriculture being assisted by BSU as a regional agricultural college. The other one is the Ilocos Sur Agricultural College.



A seminar-workshop on Instructional Materials Enrichment for English and Filipino hosted by BSU-ATEP. After this activity, BSU became the center of instructional materials development for English and Filipino.

GENERAL ADMINISTRATION



The University continuously provides basic instructional facilities to promote quality education.

Organization and Management

As in other chartered state universities and colleges, the Board of Regents is the University's highest policy-making body. The Secretary of Education, Culture and Sports represented by the Undersecretary, Dr. Luis R. Baltazar, is the Chairman of the Board. The University President, Dr. Lucio B. Victor, is the Vice Chairman, and NEDA-CAR Regional Director Joseph M. Alabanza and two prominent citizens (not yet appointed) as members.

The University President is the Chief Executive Officer of the University. Assisting

him are the three Vice Presidents including the Administrative and University Councils.

The University Vice President assists the University President in the general administration towards the promotion of effectiveness, efficiency and economy in the delivery of educational services. The Vice President for Academic Affairs, on the other hand, administers and supervises the plans, programs and projects involving instruction. Likewise, the Vice President for Research and Extension exercises general supervision and coordination of all programs and projects in re-

search, extension and information services.

The Administrative Council is charged to prepare, recommend and promulgate general administration policies governing personal, financial management, real and other properties, development planning and other aspects of institutional management subject to the approval of the Board of Regents. The Council is composed of the University President as chairman, the University Vice President as Vice Chairman, the Vice Presidents, Deans, Directors and other officials as may be designated by the University President as members. The presidents of the BSU Teachers and Employees Association, the BSU Union of Non-Teaching Personnel and the Faculty Club are also members of the Council without voting powers. The University and Board Secretary serves as the Secretary of the Council.

The University Council is responsible for approving academic policies including the offering of courses, admission and graduation of students. It is composed of the University President as Chairman, the University Vice President as Vice Chairman and the Vice Presidents, Deans, Directors, Department Chairmen,

Professors, Associate Professors, and Assistant Professors as members. The University and Board Secretary acts as the Secretary of the Council.

General Administrative Services

The General Administrative Services included general administrative support functions in the areas of personnel, records, supply and property, custodial work, transportation and utilities including the supervision and monitoring of the internal controls, systems and procedures pertaining to the administrative transactions and general operations of the University.

Accomplishments:

During the year under review, the General Administrative Division had the following accomplishments:

1. Consistently maintained close supervision on the administration of personnel salaries/wages, benefits, and all other types of compensation in accordance with existing policies, laws, rules and regulations of government.

2. Maintained prompt payroll management for payment of salaries/wages of personnel on due time. Continuously maintained an early remittance of personnel contributions to the GSIS, HDMF, PNB, BIR, PPSTA/PAVE, etc., which min-

imized the imposition of penalties.

3. Maintained a continuous strict supervision and monitoring of the proper implementation of systems and procedures as well as internal controls in the University operations to ensure the effective and efficient administration and utilization of government resources and the delivery of educational services towards the optimum but at least cost.

4. Closely monitored the institution of improvements and on the spot corrections of procurement systems and violations committed thereof in facilitation of delivery of commodities to the end-users, and towards the avoidance of commission of irregularities, fraud, and violation of per-

tinent laws, rules and regulations on transactions that would minimize suspensions and/or disallowances of the Commission on Audit on the University's accounts.

5. Initiated the establishment, adoption and implementation of the Grievance Machinery, the Management Improvement Productivity Program Committee (MIPPC), the Suggestion and Incentive Awards Committee (SIAC) responsible in the administration and management of employee complaints and grievances, improvement of performance and work in government, and provision of awards to deserving employees respectively.

6. Maintained strict implementation of systems of



Safeguarding the land resources is a continuing major concern of the University. Photo shows perimeter fencing along school boundaries to prevent encroachment of squatters.

Table 23. Tasks accomplished by the General Administrative Services

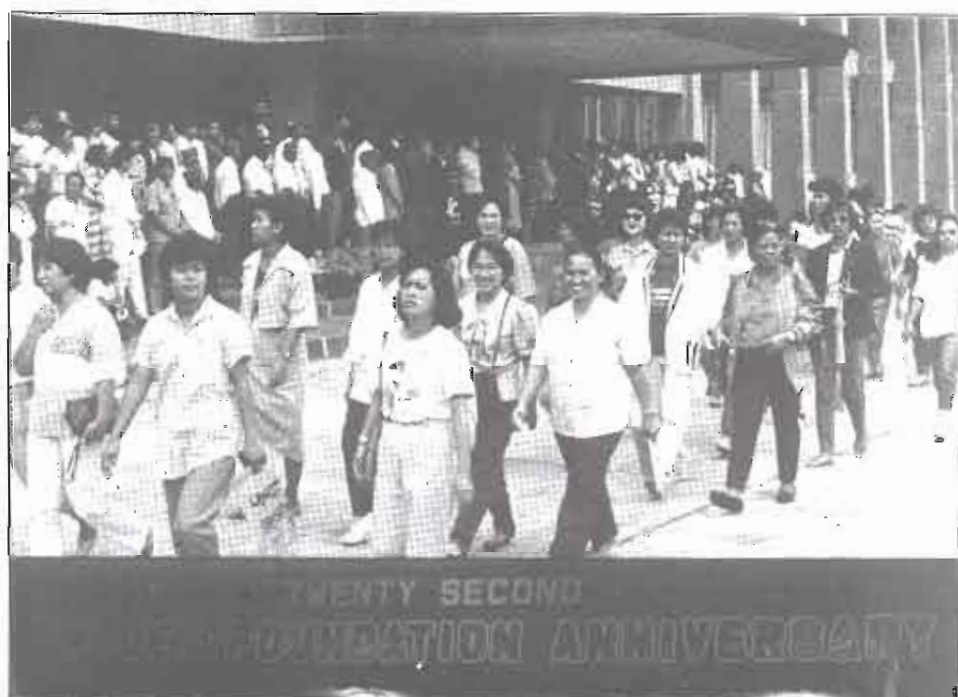
	Quantity
a. General Payrolls for Salaries maintained for 510 employees	950
b. Timebook and payroll for wages maintained for 55 casuals	230
c. Salary differentials (Non-teaching reclassification & NCC 68)	28
d. Salary/wage Ledgers maintained	565
e. General payrolls for overtime, overload teaching and graduate studies	72
f. Remittance reports to BIR (135), GSIS (170), PNB (72), HDMF (145), PPSTA/PAVE (36)	558
g. Trip tickets/withdrawals of fuel issued	895
h. Disbursement vouchers (miscellaneous) prepared	300

recruitment, selection, and promotion of employees in accordance with Civil Service laws, rules and regulations and other policies of government relative to manpower acquisition, development, and separation.

7. Continuously instituted rigid internal control on the utilization of government vehicles, instituted pooling of passengers and scheduling of trips, as well as provision of fuel accordingly which minimized expense thereby avoided unnecessary wastage/loss of government resources.

8. Implemented a progressive attendance by, and participation of, deserving employees distributed equally to seminars, conferences and trainings sponsored by different agencies.

BSU faculty and staff participate in community affairs such as shown above. This was taken during the celebration of the Ben-guet Foundation Anniversary.



HUMAN RESOURCE MANAGEMENT

Personnel management lies in the Human Resource Management Office (HRMO). Its functions include the formulation, development and implementation of personnel programs and policies such as recruitment and selection, promotion, performance evaluation, leave administration, preparation of personnel data and reports, correspondence, memoranda and such other facilitative services extended to personnel relative to claims for benefits and employee privileges.

For CY 1992, the total number of personnel was 573. Of this number, there were 276 faculty members, 72 research personnel and 225 administrative personnel.

Accomplishments:

A. Personnel Programs

1. Performance Evaluation System (PES).

The PES for non-teaching personnel was re-installed in order to continuously foster improvement of employee performance and efficiency; enhance organizational effectiveness and productivity and provide an objective performance rating to serve as basis for incentive and rewards, promotion, training and development personnel actions and administrative sanctions. The PES was submitted in compliance with CSC MC No. 12, s. 1989 which was acknowledged by the Chairman of the Civil

Service Commission on March 13, 1992 with the instruction that it be pilot-tested to find out its acceptability by the users. In consonance with this, a workshop was jointly conducted by the University and the CSC-CAR which was attended by 208 non-teaching personnel and some BSU offi-

the basis of the initial performance evaluation report.

2. Employee Suggestion and Incentive Awards System (ESIAS).

Pursuant to the provisions of Section 35, Chapter V of Executive Order No. 292, otherwise known as the "Ad-



The BSU Teachers and Employees Association's Livelihood Center Building which was constructed out of the development fund given by former Senator Sotero Laurel to the association.

cial. Topics discussed by the CSC-CAR staff were: job analysis, performance target setting, establishing standards and evaluating results. BSU officials on the other hand briefed the participants on the organizational and functional chart, unit work programs of the administrative, financial and research and extension services. The participants likewise presented samples of their performance targets for the period July 1 to December, 1992 which shall also serve as

ministrative Code of 1987", an Employee Suggestions and Incentive Awards System (ESIAS) was established in the University which was approved by the Chairman of the Civil Service Commission on December 8, 1992.

The ESIAS aims to encourage creativity, innovativeness, efficiency and integrity and productivity in the public service; and to recognize and reward officials and employees for their suggestions, inventions, superior accomplish-

ment and other personal efforts which contribute to the efficiency, economy or other improvements in government operation or for other extraordinary acts or services in the public service.

The system provides for two types of awards: honor and incentive awards. The presidential or Lingkod Bayan Award, CSC or Pag-asa Award, the department/agency or Kapwa Award and the Outstanding Public Official/Employee Award or Dangal ng Bayan Award are honor awards while the following refer to incentive awards: performance incentive, length of service, productivity, most courteous employee award, loyalty, retirement and the year-end benefits.

The SIAC or the Suggestion and Incentive Awards Committee shall administer the system and its functions are: to prescribe, subject to the approval of the University President, the procedure in evaluating employee suggestions, inventions or accomplishments; receive, review and process suggestions and nominations; be granted to the employee for his idea or suggestion; recommend to the University President who shall be nominated for the honor awards or incentive awards or both awards.

The SIAC is composed of the Administrative Officer V, Legal Officer, Human Resource Officer and the Presidents of the Faculty Club and

the Non-Teaching Personnel Association.

3) Other Activities

The Human Resource Management office was involved in other activities of the University such as the Civil Service Week Celebration and Talakayan sa College of Agriculture. The chief of the HRM Office spoke on the topic "Leave of Absence and Government Office Hours" during the simple program culminating Civil Service Week attended by the University officials and non-teaching personnel. Pertinent provisions of CSC rules and policies were cited to orient and reorient University personnel of the rules and policies.

On October 7, 1992 the College of Agriculture sponsored the Talakayan sa CA which was held at Room 105 of the RSDC at 3:00 P.M. The HRMO discussed the employee suggestion and incentive awards systems (ESIAS) and the role and function of the Suggestion and Incentive Awards Committee (SIAC). She handled pertinent questions that were raised during the open forum.

B. Personnel Reports

The number of University personnel who were issued appointment during the year according to the nature of their appointment is presented in Table 24.



BSU promotes closer relationship with other CAR agencies through sports competition.

Table 24. Personnel Actions (Appointments)

Nature of Appointment	Faculty	Non-teaching	Casuals/ Substitute	Total
Original	2		13	15
Promotion		1	1	2
Reappointment	1		1	2
Renewal	6		63	69
Total	9	1	78	87

Employee benefits such as vacation and sick leave, maternity leave, terminal leave, medicare, employee compensation for work-related in-

jury or sickness, and the monetization of earned leaves were availed of by the University personnel (Table 25). The table also shows the number of

personnel who applied for GSIS salary and policy, including PNB loans which are initially processed by the HRM Office.

Table 25. Employee Benefits/Claims

Nature of Benefit/ Claim	Faculty	Non-Teaching	Casuals/ Substitutes	Total
Medicare	19	17	2	38
Employee Compensation Claim	3	--	--	3
Monetization of Earned Leaves	91	121	40	252
Vacation/Sick Leave	547	1,007	312	1,866
Maternity Leave	9	7	5	21
Terminal Leave	3	4	6	13
GSIS Salary & Policy Loans	84	75	--	159
PNB Loan	63	64	--	127
Total	819	1,295	365	2,479



← *Senator Coseteng talks on the role of women in Philippine Development during a symposium held at the University last November 26, 1992.*

The number of personnel who were granted the length of service incentive pursuant to Joint DBM-CSC Circular No.

1, s. 1990 which entitles an employee to one step increase for every 3 years of service in the same position reached 107

personnel in 1992. Majority of those given has a length of continued service of three years in the University (Table 26).

Table 26. Length of Service Incentive

Length of Service	No. of Faculty	No. of Non-Teaching	Total
3 years	31	21	52
6 years	2	28	30
9 years		16	16
12 years		1	1
15 years		4	4
18 years		2	2
21 years		2	2
Total	33	74	107

Three hundred sixty-six out of 573 University personnel were granted loyalty awards. The award was in the form of cash bonus in the amount of P200.00 for every

year of service in the government for a minimum of ten (10) continuous years as provided for under the University ESIAS and implemented by BSU Memorandum Circular

No. 92-01 dated October 25, 1992. The total amount of P1,192,000 was given for this award (Table 27).

Table 27. Loyalty Awards

Years in Service	No. of Faculty	No. of Non-Teaching	Total	Amount
10	62	92	154	P308,000
15	56	34	90	270,000
20	32	16	48	192,000
25	34	7	41	205,000
30	15	3	18	108,000
35	10	1	11	77,000
40	3	1	4	32,000
Total	212	154	366	1,192,000

Table 28 shows the number of reclassified/reallocated

non-teaching positions which were approved by the Depart-

ment of Budget and Management.

Table 28. Reclassified/Reallocated Non-Teaching Positions

Level of Position	Reclassified within level	Reclassified from 1st to 2nd level	Total
First Level	14		14
Second Level	11	3	14
Total	25	3	28

Table 29 shows the results of the automatic conversion of faculty ranks authorized under NCC No. 68 on the basis of the points earned by faculty members as of June 30, 1992 under the NCC No. 33 evaluation. Out of the 235 faculty members whose ranks were adjusted, 204 of them had corresponding adjustment in their salaries while the remaining 31 maintained their present salary levels. Likewise, the 53 new professors were further screened in compliance with NCC 33.



The College of Veterinary Medicine Building which is about to be completed.

Table 29. Automatic Conversion of Faculty Ranks Pursuant to NCC No. 68

Academic Rank/Sub-rank	No. of Faculty	With Salary Adjustment	Professors to Undergo Further Screening
Professor VI	15	15	
Professor V	6	6	
Professor IV	9	9	4
Professor III	12	12	12
Professor II	16	16	16
Professor I	21	21	21
Associate Professor V	21	21	
Associate Professor IV	18	18	
Associate Professor III	11	11	
Associate Professor II	17	17	
Associate Professor I	11	11	
Assistant Professor IV	18	18	
Assistant Professor III	14	14	
Assistant Professor I	4	4	
Assistant Professor I	10	10	
Instructor III	5	1	
Instructor II	3		
Instructor I	24		
Total	235	204	53

For CY 1992, there were 11 University personnel who were separated from the University. This comprises 6 faculty members and 5 non-teaching personnel (Table 30).

Table 30. Report on Separation

Nature of Separation	Faculty	Non-Teaching	Total
Resignation	1	2	3
Transfer	1		1
Retirement	3	2	5
Death	1	1	2
Total	6	5	11

RECORDS MANAGEMENT

Records management deals primarily in the maintenance, control and upkeep/proper filing of vital documents and essential records of the University including the circulation of memoranda, circulars, notices and others to

concerned offices and individuals.

The Records Management Office serves as the central registry office and custodian of official records of the University. It services the reference requirements of management including the general public

who may request information about the University. It also monitors the flow of incoming and outgoing correspondence upon receipt up to the time of disposition and supervises the operation of the xerox machine and telephone for official purposes.

Accomplishments:

1. Flow of Communications

Number of Copies

a. External Incoming Correspondence	1,316
b. Internal Incoming Correspondence	251
c. Internal Outgoing Communications	66
d. External Outgoing Communications	460
e. Telegrams	34
2. Circulation of Memoranda, Circulars Notices, etc.	
a. Administrative Memorandum	12
b. Office Memorandum	19
c. Special Order	40
d. Memorandum for: Individual employees, committees, general memos	109

e. Notice of Meetings 103

3. Xerox copier operation 685,351

4. Telephone Operation Average of 15-30 calls per day

5. Records Keeping/filing 2,295

6. Records disposition

7. Preparation of Reports

a. report of postage stamps accountability 12

b. Annual Report 1

c. Scholarship data 12

d. Monthly meeting of non-teaching personnel 12

e. Preparation of minutes of various meetings 36

8. Creation and preparation of communications as called for

SUPPLY MANAGEMENT

Supply and property management deals with the procurement of supplies, construction materials and equipment, property inventories, disposal of expendable and semi-expendable supplies and materials, inventory and inspection of unserviceable properties and equipment including donations such as books, equipment and supplies and materials and registration, and follow-up of maintenance and repair of motor vehicles.

The Supply and Property Management Office is tasked to supervise and manage the supply and property operations of the University. It further aims to develop an effective supply and property management system that will promote efficiency and economy in the procurement and issuances of supplies, materials and equipment in the University.

LEGAL AFFAIRS

The University's Legal Office is mandated to provide the office of the University President and other offices legal assistance in the formulation, interpretation and implementation of university rules and regulations; to represent the University in courts when legal actions are initiated for or against the University; to

Accomplishments:

Table 31. Accomplishment Reports of the Supply Management Office

Work Accomplished	Quantity
Purchase requests approved	1,051
Local canvass made	1,051
Purchase orders prepared and approved	951
Requisitions prepared and approved (issuances)	859
Commercial vouchers prepared	859
Reimbursement vouchers prepared	25
Annual inventory (General Fund) Fund 101	1
Annual Inventory (Revolving Fund) Fund 161	1
Inventory of Donation - USAID	1
Inventory of Donations - other agencies	2
Public bidding conducted	5
Monthly supplies adjustment report	12



Extension Building of the Motor Pool to house Vocational Technology Fabrication Shop.

handle investigation of administrative cases involving university personnel and students, and to draft and review contracts involving the University.

Accomplishment

Represented the university in the many pending cases, both civil and land cases, filed for or against the university. Anent the preparation of the said cases, the legal officer had to conduct research in court and in law libraries, prepare memoranda, briefs, motions and such other pleadings necessary to protect the interest of the university. The legal officer had also to conduct ocular inspections to verify the facts on the many land cases of the university;

As Chairman of the BSU Investigating Committee, he conducted interviews, made investigations and had ocular inspections anent reported thefts and losses;

Attended and participated in the BSU-PBAC meetings as executive officer of the said committee;

Attended and participated in the meetings of the University Security Committee;

Headed the BSU Housing Committee;

6. Rendered legal advice and opinions to University personnel, faculty and students.

PLANNING AND DEVELOPMENT

Letter of Instruction No. 1461 which provides guidelines for planning and for the improvement in the management of state universities and colleges states that each state university or college shall formulate a development plan that is supportive of the manpower goals of the region and of the nation. It shall identify an area of specialization that is within the objectives specified in its charter, its capability to implement programs taking into consideration its faculty profile, buildings and equipment and availability of educational opportunity in other state universities and colleges and in good private schools in the area.

Serving this as a guideline, the University consistently updated its six-year development plan in order to come out with a viable framework for institutional development as demanded by the present times.

The Planning and Development Office, which is mandated to initiate and coordinate the preparation of institutional development plan has coordinated the following activities during the year under review:

1. BSU Institutional Streamlining and Planning Workshop

a) Preparation / Formulation of Medium Term Development Plan and Medium Term Public Investment Program.

As per Malacanang Memorandum Circular No. 2 signed by His Excellency President Fidel V. Ramos, the University prepared its Medium Term Development Plan and Medium Term Public Investment Program for 1993-1998. Said plans were submitted to the National Economic and Development Authority - CAR and made as a part of the CAR Regional Development Plan.

b. Preparation of Streamlining Report

The National Budget Circular No. 427 issued Sept. 1, 1992 which prescribed the guidelines and procedures of Memorandum Order No. 27 for the streamlining of agency operations and organizations provided direction for the University in its efforts to streamline its programs, projects and activities. Conducted simultaneously with the preparation of Development Plan, the University submitted its streamlining report to the Department of

Budget and Management - CAR maintaining status quo on its formal organizational structure.

2. Consolidated reports submitted by various University offices as per request by the Cordillera Executive Board- CAR. Said report was made part of the CAR Accomplishment Report for the 100 days of the Ramos Administration.
3. Prepared reports requested by various International offices, government agencies as well as private offices like the TPAE, UNDP, NIUFE, IAU, DECS and others.

GENERAL SERVICES AND PHYSICAL RESOURCE IMPROVEMENT

The General Services and Physical Plant covers services on motor pool, janitorial, electrical, plans, designs and construction, landscaping and maintenance, painting, water works and sewerage system, building repair and maintenance and repair of machines and equipment.

Accomplishments:

Most of the work done in 1992 were improvements of facilities to meet the demands for good quality instruction.

Improvement Works

1. Replacement of broken window glasses
2. Replacement of green house roofings

3. Restoring destroyed gutters, faucets and lighting system
4. Repair of defective sewerage system, cabinets, arm chair, working tables, stools, kitchen sink
5. Patching of leaking roofs
6. Maintenance of sanitation in the campus
7. Conditioning of University vehicles
8. Construction of stools, lectern, bulletin board, and office tables
9. Painting of placards, signs, stage (closed gymnasium), dental clinic and covered walk roofings
10. Installation of door grills in the Boy's Dormitory
11. Putting up of landscape grill quart in front of the Administration Building

Completed Infrastructure Projects

1. One Greenhouse and one storeroom for research
2. One cottage for the Sericulture Project
3. Motor Pool Building, Phase I
4. Alumni Center Building
5. Elevated Water Tank
6. Food Processing Center



The College of Agriculture Building being constructed.

7. BSUTEA Livelihood Center Building (donated by former Sen. Sotero Laurel)

Ongoing Infrastructure projects

1. Deep well drilling at Agro-forestry Project, Ampasit

2. College of Agriculture Building

3. College of Veterinary Medicine Building

4. ATEP Printing Office Building

5. Perimeter Fencing

UNIVERSITY AND BOARD OF REGENTS SECRETARIAT

The University and Board of Regents Secretariat is responsible for the preparation, consolidation, and custody of records and documents on policies pertaining to the governance of the University as promulgated by the national and local governments, Department of Education, Culture and Sports and the University Board of Regents.

Such functions are vested to the University and Board Secretary who is involved in the preparation of agenda for the regular and special meetings of the Board of Regents including the Administrative and University Councils which she both serves as Secretary. She is further mandated to coor-

dinate with other offices in the University in the handling of personnel, fiscal, physical and administrative supports including special projects that may be initiated by the University, and are subject to the approval by the Board of Regents.

Accomplishments:

1. Meetings and Resolutions Passed:

The Board of Regents of the University held six meetings during the year under report - from January to December 1992. It passed and adopted 65 resolutions that bear on policies and the implementation of various programs and projects, related to instruction, general administration, research, extension and production activities.

2. On Instruction and other related functions:

In instruction, the Board of Regents gave due course to the following concerns, to wit:

- a) Opening of Master of Public Administration and the curriculum thereof;
- b) Revision of two-year Agri-forestry Course to a Diploma Course, effective the school year 1993-1994;

c) Revision of the Bachelor of Science in Agriculture (BSA) Curriculum and the addition of two more majors: Sericulture and Agri-forestry, effective SY 1993-1994; and

d) Graduation of a total of 739 candidates as of the end of school year 1991-1992, Summer 1992, and the first semester of SY 1992-1993;

The Board of Regents noted too the Clearance secured from the Office of the President of the Philippines on the opening/offering of the College of Nursing at the University effective the school year 1990-1991.

3. On General Administration, and other related concerns:

On general administration and management of the University, the following actions were given due course by the Board, to wit:

- a) Approved the Internal Operating Budget (IOB) of the University for fiscal year beginning January 1 to December 31, 1992, in the total amount of P56,208,000.00 as detailed in the Work

and Financial Plan (WFP) in accordance with the provisions of the General Appropriations Act No, 7180;

b) Approved the creation or reconstitution of the Standing Committee on Land Reservation with detailed or specific functions;

c) Approved a moderate increase to the various school fees as amendment to Board Res. No. 36, s. 1984, effective the first semester of SY 1992-1993;

d) Approved, subject to certain annotations, the Lease Contract between BSU and the following Lessees:

- 1) Ernesto Lumiqued
- 2) Victor Singa
- 3) Canuto Bolona
- 4) Daniel Epie
- 5) Federico Batnag
- 6) Tomas Quilang
- 7) Lilia Garcia
- 8) Baldwin Wanson over a portion of the school reservation, identified as Lot 4, (LRC) Pcs-21375 of TCT No. T-11154 at Pico, (Km.5) La Trinidad, Benguet.

4. Other Administrative concerns also given due course by the Board:

a) Approved a resolution indicating a position of the present Board that the term of office of BSU president is also subject to the 6-year period pursuant to Sec. 6 of PD. No. 1437;

b) Approved the reappointment of Dr. Lucio B. Victor as Professor VI, SG-29 at the rate of P204,900 per annum, effective December 5, 1992, item No. 78-5, GAA No. 6831 vice Dr. Marcelino T. Delson who was appointed President of MPSPC;

c) Recommended the designation of Dr. Lucio B. Victor as Officer In-Charge of BSU, effective December 5, 1992. (Note: Dr. Victor was formally designated as OIC by DECS Secretary Armand V. Fabella on December 4, 1992).

d) Approved the consortium between BSU and the Cheju Junior College of Korea on Faculty and Student Exchange Programs;

e) Constituted a Search/Screening Committee to process

the applications, nominations, credentials of candidates, and recommendations for BSU presidency for submission to the Secretary of Education, Culture and Sports.

5. Other Administrative Functions of the Office:

In addition to the preparation of agenda, writing out of minutes, passing referenda to the Chairman and the Members of the Board, and dissemination of approved policies to all university clientele - officials, faculty and staff, students, and the general public, the Office of the University and Board Secretary is also involved in the various standing administrative committees of the University, either as Chairman or Member thereof. In these functions, the office closely assist in the preparation of internal as well as external communications.

In the over-all management of the University, and the exercise of its corporate powers, as vested in the Board of Regents, the Board uses, calls, and directs the University President or any/all officials concerned.



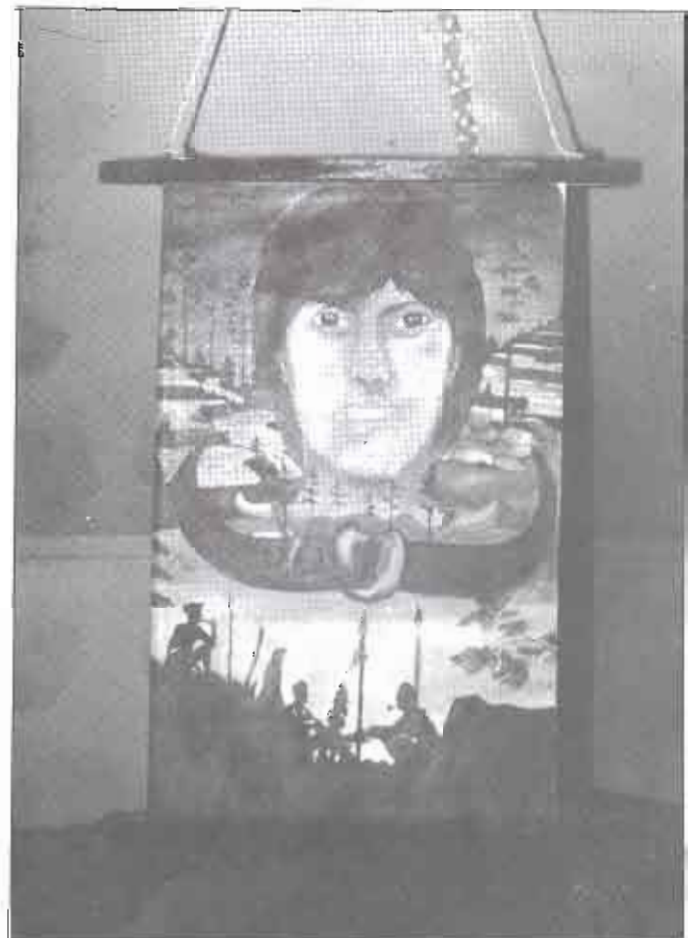
These are some of the art works presented during the Art Exhibit sponsored by the Special Cultural Office.

BSU Museum showcased some of the cultural practices of the Cordillera.

To further boost its collection of cultural books and paintings, the Special Cultural Office has established linkages with government and non-government organizations. As a result of these linkages, the Office was a recipient of publications given by the embassies of Japan and the People's Republic of China. Also, the Baguio Arts Guild, through its two members Jordan Mangosan and Leonard Aguinaldo donated several paintings to the Museum.

CULTURAL AFFAIRS

The Special Cultural Office which is mandated to gather, collate, synchronize the teaching, preservation and integration of the socio-cultural heritage of the various tribes of the mountain region into the national milieu continued to provide the BSU Academic community and the general public the venue including library services for ethnic culture and arts. Towards this end, the cultural office sponsored a one-man painting exhibit entitled "Kaigorotan" by Jordan Mangosan, a local cordillera artist. The exhibit which was shown for the whole month of January 1992 at the



PRODUCTION

Production is one of the quadruple functions of the University. Projects under this function serve as training grounds for students including farmers who attend on-campus training courses to further advance their managerial and agri-business skills. These projects are also sources of funds providing supplemental funding to various University projects and activities.

The Business Affairs Division is mandated to monitor all production activities and account for all income derived from these activities and submit to the University President a consolidated report as prescribed in the guidelines.



The Food Processing Building.

The various income-generating projects of the University include the BSU Cafeteria, BSU Food Processing Center and Bakery Project and several agri-business projects.

BSU FOOD PROCESSING CENTER AND BAKERY PROJECT

The Food Processing Center and the Bakery Project produce various food products which are sold to the University personnel, students, visitors and the community. It also serves as the training ground for students taking up Bachelor of Science in Home



Some of the bakery products being produced at the Bakery.

Economics with major in Food Industry including students from other universities and colleges who prefer to have their internship at the University.

Food Processing Center

The main processed food products being produced by the Food Processing Center are strawberry jam, guava jelly, peanut brittle, peanut butter, peanut adobo, ube jam and mixed fruit candies.

Out of these products, the Food Processing Center was able to realize a net income of P194,828.87 from a gross income of P698,474.15 and operating expenses of P503,645.28 for calendar year 1992. This profit reflected a 27.89% percentage of net income to gross income.

Aside from production of its regular food products, the Food Processing Center processed fresh strawberry for BAPAI for its Manila-based client Griffiths, Inc. to which it was able to earn service fees amounted to P17,160.00 and remitted as an additional income of the center.

Bakery Project

The Bakery Project produces baked products such as plain loaves, cinnamon loaves, cakes, peanut bars,

pandesal and assorted bread rolls. Made to order cakes are likewise accepted for special occasions like wedding, anniversaries and birthdays.

For calendar year 1992, the Bakery Project posted a net income of P259,073.97 which reflected a percentage of net income to gross income of 25.00%. The total gross income was P1,036,533.90 and the operating expenses which include wages, PERA, clothing allowance and year-end benefits of casual workers was P777,459.93.

BSU CAFETERIA

The BSU Cafeteria is both an instructional and income generating project of the University. Aside from provid-

ing meals at affordable prices to faculty and staff, students and visitors, it also serves as training ground for students enrolled in the BSHE and BSND programs of the University.

The BSU Cafeteria has a daily customers ranging from 100-150 people or an average of 1,577 per month. Most of them are students and employees of the University, interns and employees of the Benguet General Hospital and employees of nearby offices like PNB, Provincial Capitol, DECS-CAR, PTRI and DOST-CAR.

Aside from the daily customers, catering services were extended to government and private agencies especially during week-ends.



Gabi production project.

For the year 1992, the net income generated from the daily sales and catering services was P276,199.16. This was derived from the gross income of P2,176,642.95 and expenses of P1,900,443.79. Percentage of net income to gross income was 12.68%. This income was generated through a revolving fund of P80,000.00 cash advanced by the administration through the Cafeteria Manager which was paid back after one year.

Conceptualized as a self-liquidating project, the wages, personnel economic relief allowance, clothing allowance, 13th month pay and cash gift of casuals and emergency workers including over-time pay of both permanent and casual workers were charged to the project and were included in the expenses.

AGRI-BUSINESS AND OTHER INCOME-GENERATING PROJECTS

Several agri-business and other income-generating projects were implemented by the University for calendar year 1992. These included crops, livestock and other non-agricultural projects such as canteen, agri-mechanic and Veterinary Medicine Clinic.

For the year under review, the two designated project managers under the produc-

tion project were able to cultivate an area of 2.5 hectares planted with strawberry, celery, cabbage, carrot, chinese cabbage, lettuce and bell pepper. Another 34.17 hectares were planted with highland vegetable crops and cutflowers which were supervised by

other production project leaders.

Some of the projects as presented in Table 32 reflected either a partial or a negative income as these had still been on-going when the report was prepared.



Strawberry production project.

Table 32. Net Income of Projects Under Revolving Fund, 1992

PROJECT	PROJECT MANAGER	GROSS INCOME	EXPENSES	NET PROFIT
RSDC Cafeteria	L.C. Balaoing	2,176,642.95	1,900,443.79	276,199.16
Food Processing Center	R.C. Abastilla	698,474.15	503,645.28	194,828.87
Bakery Project	R.C. Abastilla	1,036,533.90	777,459.93	259,073.97
Seed Production Third Operation	V. Milo	164,781.25	140,371.41	24,409.84 ¹
Strawberry	G. Bilango	257,777.70	200,030.50	57,747.20 ²
Vegetables	S. Bangcado	31,490.00	--	31,490.00 ³
Floriculture				
Project I	B. D. Ladilad	30,244.50	6,825.00	23,419.50
Project II	B. D. Ladilad	1,467.00	--	1,467.00
Oyster Mushroom	Tad-awan	20,105.00	--	20,105.00
Poultry				
Flock I	J.K. Feleciano			14,987.80 ⁴
Flock II	J.K. Feleciano	1,782,937.80	1,510,603.97	272,333.83 ⁵
Flock III	J.K. Feleciano	2,362,249.31	1,777,057.52	585,191.79 ⁶
Flock IV	J.K. Feleciano	1,312,151.07	1,349,520.51	(37,369.44) ⁷
Flock V	J.K. Feleciano	107,258.55	849,552.31	(742,293.76) ⁷
Chayote	A. Nagpala			
Orchid Culture	V. Alejandro			
Pomology	A. Tipayno			
Agro-forestry	B. Dimas			
Piggery	M. Atinyao	157,600.00	151,922.80	5,677.20
Cattle	B. Luis			(9,946.00)
Applied Tech. Department	A. Paran	425.00	1,844.00	(1,419.00)
Misc. Income				(253,469.21)
				(19,114.25)
Total				691,965.10

¹The project manager is still selling the seeds left.

²Report from August 1991 to May 1992

³No terminal report

⁴Terminated project

⁵Report from Sept. 1990 to April 1992, Terminated Project

⁶Report from May 1991 to December 1992, Terminated Project

⁷On-going project



Cutflower production project

Table 33. Net Income of Projects Under General Fund, 1992

PROJECT	PROJECT MANAGER	GROSS INCOME	EXPENSES	NET PROFIT
Demo. Farm	c/o BADI	81,828.73		81,828.73 ¹
Sariling Sikap	c/o BADI	112,277.64		112,277.64 ¹
Farming Program	S. Aben	10,790.35		10,790.35 ²
	S. Bangcado	13,840.20		13,840.20 ²
	H. Bolinto	24,455.30		24,455.30 ²
	J. Botengan	30,626.87		30,626.87 ²
	R. Macli-ing	21,768.40		21,768.40 ²
	Floriculture (Research)	B. Ladilad		121,648.60
FAHP Canteen	M. Porte			
Vet. Med. Clinic	A. Castrence	12,390.00		12,390.00
NPRCRTC	E. Balaki	17,265.00		17,265.00 ³
Student Thesis	S. Kudan	4,076.00		4,076.00
Research Projects	P. Alipit	5,054.00		5,054.00
	B. Ligat	5,200.00		5,200.00
	I. Gonzales	2,400.00		2,400.00
	J. Perez	255.00		255.00
	B. Dimas	540.00		540.00
	Stall Fees	c/o BADI	680.00	
Soil Science	M. Marquez	4,031.25		4,031.25
Total				225,830.14

¹ School share, cropping year 1991-1992² School share, school year 1991-1992³ Report from June 1991 to April 1992

OPERATING AND SERVICE INCOME

Operating and service incomes are those that were derived from the various institutional operation and services that include school fees, building and lot rentals, school share, dormitory fees (both

men's and women's) and room rents in the Guestel and others.

The total collection for calendar year 1992 from these operations and services amounted to P3,821,009.51.

This was 52.84% higher than the estimated income of P2,500,000.00 or an increase of P1,321,009.51. This amount generated under the General Fund was remitted to the National Treasury.

Table 34. Summary of Operating and Service Income of the University for CY 1992

ACCOUNT	INCOME
Tuition Fee	1,780,006.18
Adding/Changing/Dropping	12,845.00
Athletic Fee	60,464.60
Certification Fee	18,049.00
Diploma Fee	19,434.00
Dormitory Fee/Guestel	260,318.80
Entrance Fee	50,026.00
Identification Cards	39,544.00
Laboratory Fee	516,455.00
Late Registration Fee	38,005.50
Library Fee	216,571.50
Matriculation Fee	111,701.00
Medical/Dental Fee	129,330.00
Official Transcript of Records	12,548.00
Out-of-State Fees	30,974.47
Rental (Buildings/lots)	393,802.51
Remittance/School Share	120,595.45
Validation Fee	5,285.00
Evaluation	2,473.00
Spoilage	580.00
Membership	2,000.00
GRAND TOTAL	3,821,009.51



Mushroom project.

ANNUAL BUDGET AND EXPENDITURES

The total appropriation allocated by the national government to the Benguet State University for calendar year 1992 amounted to P55,210,032.00. Of this amount, P53,324,481.32 was obligated which covered expenditures on personal services, maintenance and other operating expenses and capital outlays.

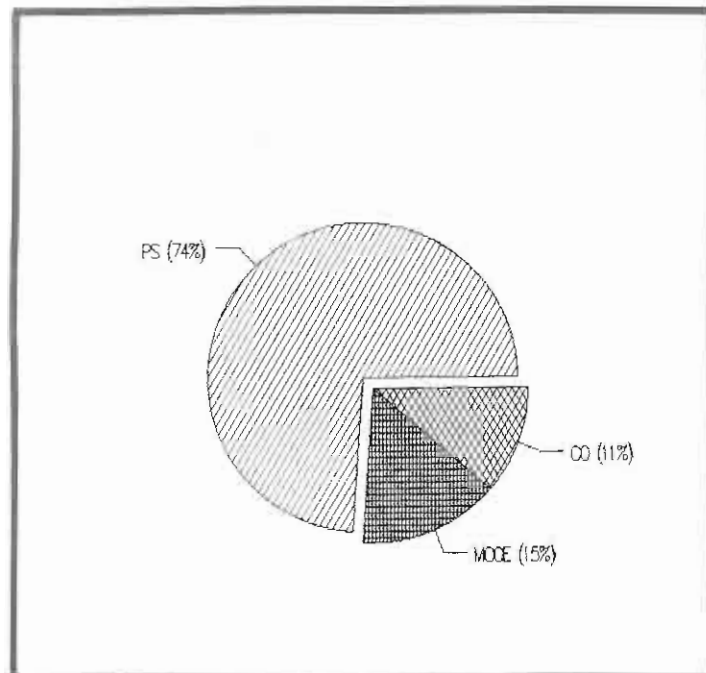
During the year, some members of the non-teaching

personnel were given salary differentials as a result of reclassification of positions as prescribed by R.A. 6758 or the salary standardization law. On the other hand, some faculty members received salary differential equivalent to three weeks of their monthly pay as a result of the implementation of NCC 33 prescribing automatic conversion of faculty position ranks (Other details discussed under Human Resource Management).

Productivity incentive bonus, loyalty in government service and step increment and the year-end bonus, cash gift and clothing allowance were likewise given to personnel of the University.

Hereunder is a statement showing the total appropriations, and obligations of Benguet State University during the fiscal year ending December 31, 1992:

**Fig. 7. Distribution of Annual Budget
FY 1992**



Total Appropriations

I. Personal Services:

100-1 Salaries (Plantilla)	27,678,000.00
100-10	
--2 Student Assistants	136,000.00
--4 Casuals	796,000.00
--4C Contractual	828,000.00
--500Honoraria/RATA	2,233,000.00
--600Faculty Development	188,000.00
--800Bonus	3,308,854.60
--900(0) Salary Adjustment	201,000.00
NCC 33	764,000.00
NCC 65	402,000.00
Step Increment	554,000.00
Substitute	256,000.00
PERA	3,030,000.00
Terminal Leave	531,000.00
Total for Personal Services	40,905,854.60

II. Maintenance and Other Operating Expenditures

--02 Traveling Expenses	237,000.00
--03 Communication Services	220,000.00
--04 Repair & Maint. of Gov't facilities	224,000.00
--05 Transportation Services	16,000.00

--06 Other Services	606,000.00
--07 Supplies and Materials	1,576,000.00
--10 Grants, Subsidies	142,000.00
--14 Water, Illumination/ Power	1,296,000.00
--15 Social Security	3,312,178.00
--17 Maint. of Motor Vehicles	400,000.00
--18 Discretionary Expenses	40,000.00

Total MOOE 8,069,178.00

Total Current Expenditures 48,975,032.60

III. Capital Outlays

--31 Land and land Improvement	500,000.00
--32 Bldg. Structures	4,235,000.00
a) Alumni Center	100,000
Col. of Agric. Bldg.	2,635,000
Vet. Med. Bldg.	1,500,000
--33 Equipment Outlay	<u>1,500,000.00</u>

Total Capital Outlay 6,235,000.00

Total Appropriations for BSU 55,210,032.60

Obligations Incurred:

I. Personal Services:

100 Salaries (Plantilla) 27,770,403.24

100-10	
Student Assistants	82,348.00
Casuals	889,518.05
Contractual	620,478.48
Overtime Pay	169,512.05
RATA	255,700.00
Faculty Development	54,119.00
Productivity	
Incentive Bonus	1,152,901.90
Bonus & 13th month pay	2,974,996.00

Clothing Allowance	552,245.75
Loyalty Award	1,192,000.00
Step Increment	274,621.53
Honoraria	1,367,421.72
Substitute	94,948.68
PERA	2,947,718.09
Terminal Leave	<u>506,915.35</u>
Total for Personal Services	<u>40,905,847.84</u>

II. Maintenance and Other Operating Expenditures

--02 Traveling Expenses	234,513.18
--03 Communication Services	139,553.58
--04 Repair & Maint. of Gov't facilities	221,742.73
--05 Transportation Services	14,160.00
--06 Other Services	604,754.60
--07 Supplies and Materials	1,574,197.13
--10 Grants, Subsidies	137,193.00
--14 Water, Illumination/ Power	1,295,029.96
--15 Social Security	3,311,879.49
--17 Maint. of Motor Vehicles	399,926.94
--18 Discretionary Expenses	<u>39,641.27</u>

Total MOOE 7,972,591.88

III. Capital Outlays

--32 Bldg. Structures	2,946,041.60
Col. of Agric. Bldg.	2,472,800.00
Vet. Med. Bldg.	473,241.60
--33 Equipment Outlay	<u>1,500,000.00</u>

Total Capital Outlay 4,446,041.60

Total Obligations 53,324,481.32

The Total Cash Allocation received for 1992 were as follows:

I. Personal Services & MOOE	48,031,263.00
Account Payable	6,068,112.00
Capital Outlay	2,490,500.00
State Checks	<u>42,280.00</u>

Total NCA 56,632,155.00

This represented cash releases from the FY 1992 appropriation of which

P48,031,263 was allocated for personal services and MOOE and P2,490,500 for capital outlay or a total of P50,521,763.

The amount of P6,068,112 represented obligations for FY 1991 which was paid in 1992.

With regards to cash allocation for FY 1992, there was still an unfunded allotment of P4,688,269.

B. National Chung Hsing University, Taiwan

Forms of Exchanges and Joint Activities:

1. Exchange of scientific and instructional information, research and extension publications, samples and educational materials.
2. Exchange of faculty for research, teaching and other collaborative activities.
3. Exchange of faculty to participate in conferences, symposia, workshops, and seminars.
4. Exchange of undergraduate and/or graduate students for specific periods of study through an organized study abroad agreement.
5. Establishment of joint research projects on subjects which are of mutual interests.
6. The agreement shall take effect upon the signing of the Memorandum of Agreement and it shall be for an indefinite period.

INTERNATIONAL LINKAGES

A. State University of Ghent, Belgium

Forms of Scientific University Cooperation Program

1. Strengthening of BSU Staff with the National Economic Development Authority and with a view to develop the rural and agri-business sector and improve the efficiency and economic planning in the Cordillera.
2. The Belgian counterpart will provide adequate educational and applied research services in the general field of rural economic development as follows:
 - a. Supplying visiting professors for

a short period, lecturing within the framework of a Master's program in Agricultural Development.

- b. Supplying a senior professor, expert in University technical cooperation.
- c. Organizing Ph. D. programs in Ghent for a limited number of senior academic members of BSU.
3. The cooperation program is intended to be effective for a period of 4 academic years.

DIRECTORY

BSU EXECUTIVE AND ADMINISTRATIVE OFFICIALS (CY 1992)

LUCIO B. VICTOR, Ph.D.
University President

CARLOS T. BUASEN, Sr., Ed.D.
SUC Vice-President III

CIPRIANO C. CONSOLACION, Ph. D.
Vice-President for Academic Affairs

PERCIVAL B. ALIPIT, Ph.D.
*Vice-President for Research
and Extension*

OFFICE OF THE UNIVERSITY PRESIDENT

JUANITO A. ORALLO, LI. B.
Legal Officer III

ROMULO Q. APOLONIO, BSE
University and Board Secretary

LAWANA T. BATCAGAN, LI. B.
*Director, Land Reservation
Office and Special Assistant*

EMMA B. KEITH, Ed. D.
*Director, Special Cultural
Office*

CARLITO P. LAUREAN, MS
*OIC, Planning and Development
Office*

OLGA C. DANGWA, MA Ed.
*Special Assistant for
Community and Alumni
Affairs*

VICTOR P. SINGA, BSE
*Special Assistant for
Business Affairs*

MABEL E. BASCO, BSC
*Management and Audit
Analyst II*

SHERILYN A. COSTINA, AB Mass Comm.
Public Relations Officer

MORENO L. SIDCHOGAN, BSFA
Chief Security Officer

OFFICE OF THE UNIVERSITY VICE PRESIDENT

General Administrative Services Division

ESTRELLA A. RAMOS, BSPA
Administrative Officer V

BRIGIT C. SAGUBO, BSC
Administrative Officer III

EMILIA M. ESTEBAN, AB
Human Resource Management Officer IV

VICTORIA L. LIMPIN, ASS
Records Officer IV

JULIET D. DEMOT, BSPA
Supply Officer II

Financial and Management Services Division

JOSEFINA M. MARQUEZ, ETC
Financial and Management Officer II

OSCAR B. LIMPIN, BSC
Cashier IV

MARY JOY S. RAPUSO, BSC
Accountant IV

PRISCILLA P. VICTOR, BSC
Budget Officer IV

General Services and Physical Plant

JUAN P. MARTES, Ed. D.
*Director, General Services and Physical Plant
Chief, Utility Services
Chief, Plumbing and Sewerage*

HORTENCIO B. PATACSIL, JR., BSArch.
Chief, Plans / Design and Construction

EDGAR M. MOLINTAS, BSME
Chief, Motor Pool

PHILIP P. BANDA-AY, MS
Chief, Building Repair and Maintenance

MODESTO U. GONZALES, Farm Mech.
Chief, Electrical Services

VILMA D. ALEJANDRO, MS
Chief, Landscaping

Business Affairs Division

GREGORIO G. BILANGO, MS
Director, Business Affairs Division

ROSA C. ABASTILLA, Ed. D.
Manager, Food Processing Center

LORY C. BALAOING, MS
Manager, Cafeteria

REMEDIOS T. GARCIA, MPS
Supervisor, Guestel

OFFICE OF THE VICE PRESIDENT FOR ACADEMIC AFFAIRS

Graduate School

ROGELIO D. COLTING, Ph. D.
Dean

College of Agriculture

FRANCO T. BAWANG, Ph. D.
Dean

LITA M. COLTING, MS
College Secretary

ZENAIDA N. GANGA, Ph. D.
Chairman, Department of Agronomy

SONWRIGHT B. MADDUL, Ph. D.
Chairman, Department of Animal Science

LUKE E. CUANGHEY, BSA
*Chairman, Department of Agricultural Economics
and Agribusiness Management*

LETICIA C. CONSOLACION, MS
Chairman, Department of Agricultural Extension

BONIE S. LIGAT, MS
Chairman, Department of Crop Protection

FERNANDO R. GONZALES, Ph. D.
Chairman, Department of Horticulture

TESSIE M. MERESTELA, Ph. D.
Chairman, Department of Soil Science

CARLOS A. TUGUINAY, BS
Coordinator, Department of Agri-forestry

DOMINGO Q. CASIWAN, Ph. D.
*Project Supervisor, Agricultural Technology
Education Project (ATEP)*

**College of Applied Engineering and
Technology**

JOHN JAMES F. MALAMUG, MS
Dean

ARTHUR L. PARAN, MS
College Secretary
*Chairman, Department of Applied Engineering
and Technology*

GENARO W. MACASIEB, Jr. BSCE
Chairman, Department of Agricultural Engineering

College of Arts and Sciences

ESTHER R. HUFANA, Ph. D.
Dean

EDNA A. CHUA, MAT
College Secretary

JOSE J. JOSUE, Ph. D.
Chairman, Department of Biology

REBECCA B. CASTILLO, Ph. D.
Chairman, Department of Chemistry

CONSORCIA D. AQUITANIA, MAEd
Chairman, Department of Math-Physics-Statistics

ARTEMIO T. LAKING, MA
Chairman, Department of Social Science

FLORENCE C. CAWAON, Ed. D.
Chairman, Department of Nursing

College of Education

ALBERT B. DIMAS, Ed. D.
Dean

PERLITA J. FERNANDEZ, Ph. D.
College Secretary

DOMINADOR S. GARIN, Ph. D.
Chairman, Department of Agricultural Education

REVELINA Z. FABRO, MAT
Chairman, Department of Physical Education

CAROLINE B. DIMAS, Ed. D.
Chairman, Department of Secondary Education

ZENITH D. LLANES, Ed. D.
Chairman, Department of Elementary Education

ALFREDO C. TIPAYNO, Ph. D.
Principal, Secondary Training Department

ROSITA A. BAWANG, MA
OIC, Elementary Training Department

FELIPE S. COMILA, MS
*Supervisor of Student Teaching
(Bachelor of Secondary Education)*

SONIA M. CELINO, Ed. D.
Supervisor of Student Teaching
(Bachelor of Elementary Education)

College of Forestry

FELICIANO G. CALORA, Jr., Ph. D.
Dean

PAQUITO P. UNTALAN, BSF
College Secretary
Chairman, Department of Forestry and
Forest Resources Management
and Social Forestry

JOHN G. TACLOY, BSF
Chairman, Department of Biological Science
and Wood Science and Technology

College of Home Economics and Technology

JOSEFINA R. ALONZO, Ed. D.
Dean

VICTORIA D. TUMBAGA, BSHT
College Secretary
Supervisor, Student Teaching - Home Economics

EPIFANIA G. AOAS, MPS
Chairman, Home Economics Education

PELÍN B. BELINO, BS
Chairman, Human Nutrition and Foods

College of Veterinary Medicine

ANATALIA V. CASTRENCE, DVM
Dean
Chairman, Department of Surgery
Chairman, Department of Microbiology
and Public Health

JERRY Y. POL-AS, DVM
College Secretary
Chairman, Department of Pharmacology
and Physiology

RUTH C. DIEGO, DVM
Chairman, Department of Anatomy

CRISELDA S. BATTAD, DVM
Chairman, Department of Parasitology and
Protozoology

ABRAHAM C. PATACSIL, MPA
Director, Veterinary Hospital
Chairman, Department of Zootechnics

MANOLITA N. ALVARO, BSMT
In-charge, Diagnostic Laboratory

Academic Support Services

EVELYN M. BAYANGAN, Ed. D.
Director, Admission's Office

NORA J. CLARAVALL, Ed. D.
Director, University Library Services

VILLA R. FORMARAN, MD
Director, Medical Services

TERESITA A. PALAEZ, DDM
Chief, Dental Services

WILFREDO B. MINA, Ph. D.
Director, Office of Student Affairs

FRANCISCO R. AQUINO, MAT
Director, Athletic Affairs

OFFICE OF THE VICE PRESIDENT FOR RESEARCH AND EXTENSION

PERCIVAL B. ALIPIT, Ph. D.

Director of Research

JULIA A. SOLIMEN, Ph. D.

Acting Director, Extension and Training Office

EDWIN T. BALAKI, MS

*Director, Northern Philippines Root Crops Research
and Training Center*

BEN D. LADILAD, Ph. D.

Director, Horticulture Research and Training Institute

BENJAMIN B. DIMAS, MS

Director, Highland Agro-forest Institute

ROGELIO D. COLTING, Ph. D.

Director, Institute of Highland Farming System

DARLYN D. TAGARINO, MBM

Director, Highland Socio-Economics Research Institute

BIENVENIDO M. BALWEG, LI.B.

Director, Publications and Media Services

DANILO P. PADUA, MS

Acting Manager, Institute of Plant Breeding

Republic of the Philippines
BENGUET STATE UNIVERSITY
La Trinidad, Benguet

BOARD OF VISITORS

HIS EXCELLENCY FIDEL V. RAMOS
President, Republic of the Philippines

HONORABLE JOSEPH ESTRADA
Vice-President, Republic of the Philippines

BOARD OF REGENTS

HONORABLE ARMAND V. FABELLA
Secretary, Department of Education, Culture and Sports
Chairman

HONORABLE LUIS R. BALTAZAR
Representing the Secretary as Presiding
Chairman of the Board
Undersecretary, Department of Education,
Culture and Sports

HONORABLE LUCIO B. VICTOR
President, Benguet State University
Vice-Chairman

HONORABLE JOSEPH M. ALABANZA
Executive Regional Director, NEDA-CAR
Member

Two Prominent Citizens
(not yet appointed)
Members

HONORABLE ROMULO G. APLONIO
University and Board Secretary