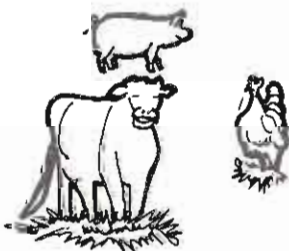
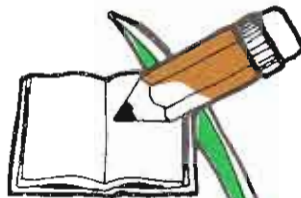
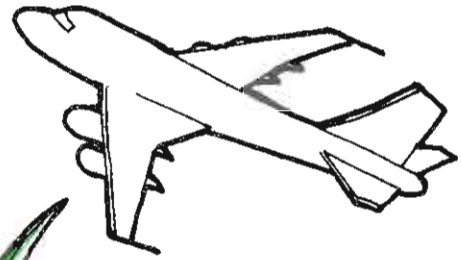
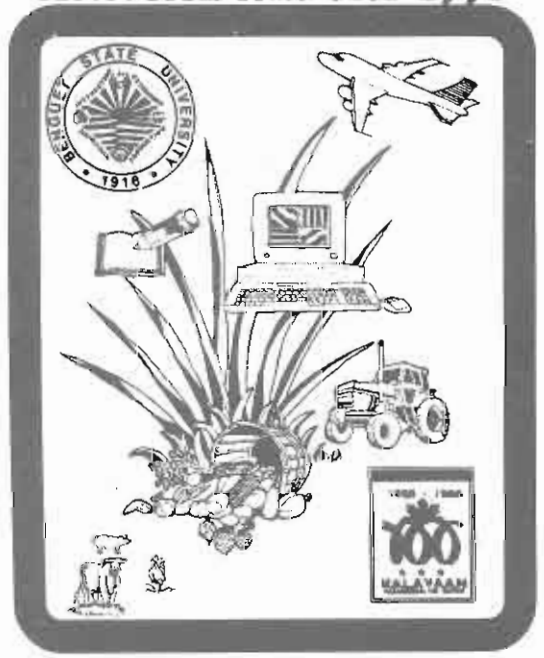


ANNUAL REPORT 1998



ANNUAL REPORT 1998



The Cover. The nine Colleges and the various support units of the University (represented by big and small leaf blades respectively), conspiring to meet globalization requirements through information technology enhancement, agriculture modernization, refocused educational strategies and increased productivity.



Republic of the Philippines
BENGUET STATE UNIVERSITY

La Trinidad, 2601 Benguet

Office of the President



July 16, 1999

His Excellency
PRES. JOSEPH EJERCITO ESTRADA
President
Republic of the Philippines
Malacañang, Manila

Thru: **HON. ESTER A. GARCIA**
Chairman, Commission on Higher Education
DAP Building, San Miguel Avenue
Ortigas Center, Pasig City

Sir:

I have the honor to submit to you the Annual Report of Benguet State University for the year 1998.

Based on the mandates of our University, this report contains our various accomplishment and involvement in **INSTRUCTION, RESEARCH, EXTENSION** and **PRODUCTION**.

Thank you and more power!

Very respectfully yours,


CIPRIANO C. CONSOLACION
President

Republic of the Philippines
BENGUET STATE UNIVERSITY
La Trinidad, Benguet, Philippines

BOARD OF VISITORS

HIS EXCELLENCY JOSEPH E. ESTRADA
President, Republic of the Philippines

HONORABLE GLORIA MACAPAGAL-ARROYO
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HON. FAUSTINO K. MASLAN
Regional Director, DA-CAR



HON. BEN D. LADILAD
Regional Director, DOST-CAR



HON. CARLOS T. BUASEN, SR
President, BSU Alumni
Association, Inc.



HON. ALBERT B. DIMAS
President, BSU Faculty Club



HON. ARIEL DAYOTAO
President, BSU Supreme
Student Council

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Executive Summary

Administration



THE UNIVERSITY EXECUTIVES (Left to right). Dr. Rogelio D. Colting, VP for Research and Extension; BSU President, Dr. Cipriano C. Consolacion; Dr. Franco T. Bawang, University Executive Vice President and Dr. Marcos A. Buliyat, VP for Academic Affairs, take turns in presenting to the members of the media the programs and future plans of the University.

The BSU administration remained focused on its determined effort to innovate, improve, facilitate and implement ways to deliver needed services and discharge its four-fold functions.

The various units are now gradually empowered to chart their own course through increasing decentralization.



BSU President Cipriano C. Consolacion giving a plaque of appreciation to Dr. William D. Dar after delivering his inspirational message to the graduating students.

Instruction

The pursuit of academic excellence will always be an overriding concern of the University. In consonance to this, curricula are continuously evaluated and improved. For 1998, the University Board of Regents approved the improved BSHE curriculum with the major fields in Technology and Home Economics and Home Economics and Livelihood Education.

Our past achievements led to the recognition of our College of Agriculture as a center of excellence in agriculture in the Cordillera region.

All our degree programs have been accredited by the AACCUP whereas our technical programs have the blessings and recognition of the Technical Panel for Agricultural Education.

Various faculty members and staff continue to receive accolades from different national and regional award-giving bodies. Our students, likewise continue to perform excellently in national examinations as exemplified by the 8th place garnered by a CVM graduate in the board examination for veterinarians.

The University graduated 761 students in 1998, three of which were Magna Cum Laude and thirteen, Cum laude.

Research

For the year in review, the University implemented 66 research projects which is higher by 22.22% as compared to last year.

Twenty-five or 37.87% projects were BSU – funded whereas 41 projects or 62.12% obtained



*The Shiitake (*Lentinula edodes* str.505) strain selected for La Trinidad, Benguet production.*

funding outside the University. Thirty (30) of these projects have been completed.

Two research projects, namely the research on Oyster and Shiitake Mushroom Production in Benguet as well as the Azolla Technology Transfer in the Cordillera were identified as technologies for dissemination.

Four research outputs were identified as information for dissemination. These include the rapid in-vitro propagation for colored calla hybrids, use of indigenous soil organisms and plant extracts to manage selected diseases of vegetable crops, sweet potato home and school gardening and financing potato farmers' credit needs in the Cordillera.

Extension



Dr. Edwin T. Balaki (rightmost), explaining the mechanics of the BSU sa Barangay to Irogon Mayor Pacalso (leftmost). Looking on are other BSU and Irogon officials.

Significant among the accomplishments during the year in review is the aggressive reaching out to more extension clientele in the rural areas of the Cordillera through the inception of the BSU sa Barangay Program. This is an expanded and better version of the CA sa Barangay, which was launched a couple of years earlier. Unprecedented in scope and magnitude, this new program is spearheaded by the Office of the Director of Extension (ODE).

The program recognizes each barangay's specific needs that demand specific solutions and sought to address them through the use of strategic approaches and resources that are available within each barangay.

The BSU sa Barangay has the following objectives: Focus extension services of the University on the identified needs of the barangay folks; enable closer interaction between the University personnel and the barangays; encourage the University personnel to serve in the barangays; and document the experiences of BSU in the program implementation as inputs for future extension programs.

Less than a year after its successful launching, the BSU sa Barangay has already served about 1,200 farmer-beneficiaries from 40 barangays in nine municipalities/city in four provinces – including Ilocos Sur in Region I.

The Agri-School-on-the-Air, Trainings and Outreach Programs and Technology Publications were also intensified benefiting not only farmers but also housewives, students, faculty members, technicians, school administrators and other staff, LGU officials including barangay officials and other government employees.

Production

The establishment of the BSU Marketing Center provided a big boast in the income generation program of the University. The Center which is now a popular marketing hole for BSU employees and outsiders as well, serves as the outlet of the BSU food processing center, some farm produce from the University and other food items. The center is expected to appreciably increase the income of the University in the years to come.

During the year, the University realized a net income of P5,151,932.62 from its various income generating projects including land rentals.



Dir. Marta M. Hernandez (middle) is flanked by University officials during the graduation exercises of the non-degree graduating students.



BSU Bakery products are being sold at the Marketing Center .



Pres. Consolacion chats with some University guests during a program that was sponsored by the College of Teacher Education.



Dr. Nora J. Claravall shows how computer scanning is done to President Cipriano C. Consolacion.



BSU sa Barangay at Sto. Tomas, Tuba, Benguet.

HIGHLIGHTS

ADMINISTRATION

In keeping abreast with present realities and future considerations, the administration among others, reviewed several MOAs between the University and other agencies, organizations or individuals; fully encoded personnel records, in adherence to the computerization drive of the Civil Service Commission completed the final draft of the revised BSU Code ; and strongly encouraged the opening of the BSU Marketing Center which is now an important source of added income.

Cognizant of its role in a bigger community, the administration continues to cultivate cordial, productive and mutually beneficial working relationships with other local and international entities.



Pres. C. Consolacion and NIA-CAR administrator Engr. B. Melchor are about to sign an agreement for the continuance of the BSU relocation survey. Looking on are (L to R): Engr. F. de los Santos, Dr. D. P. Padua, Engr. A. Pisilen and University Vice President, Dr. Franco T. Bawang.

The University administration has also actively and vigorously pursued a socialized housing project in support of President Estrada's housing project for the poor. The University is undertaking this in cooperation with the La Trinidad municipal government and other

concerned agencies, namely; National Housing Authority (NHA), Housing and Land Use Regulatory Board (HLURB), Housing and Urban Development Coordinating Council (HUDCC), Department of Environment and Natural Resources (DENR), and Presidential Commission on Urban Poor (PCUP).

In granting productivity and incentive bonus to BSU employees, the performance evaluation of non-teaching staff, peer evaluation and student-faculty evaluation results were used as measuring instruments.

Aside from leave privileges and monetization of leave credits, other benefits that were granted to the employees were step increments based on service records and loyalty awards in forms of certificates and cash (Table 1). Separation claims due to resignation and retirement from the services were also granted.

Table 1. Benefits granted to personnel for the year

NATURE	FACULTY	NON-TEACHING
Step Increment (based on service)	17	62
Step Increment (Lingkod Bayan Awardee)	1	0
Loyalty Awardees (10-40 years in service)	50	51
Retirement Gratuity	6	1
Terminal Leave	6	2
Total	80	116

Manpower Profile



BSU delegates composed of faculty, staff and students join the La Trinidad Centennial parade

Manpower resource is the basic need of any organization. To maximize the services of the existing manpower of the University it has to distribute its personnel to the different units of the organization.

Distribution of Personnel by Status of Employment as of December 1998

For the year under review, there were 588 personnel of the University (Table 2). Classified as: permanent, (517); substitute, (12); casual, (17) and contractual, (42). The contractual employees were hired under the revolving fund of the University.

Table 2. Distribution of personnel by employment status

Status	Number
Permanent	517
Substitute	12
Casual	17
Contractual-Revolving Fund	42
Total	588

Distribution of Personnel by Service Units / Function

The University is mandated to perform the four-fold functions of Instruction, Research, Extension and Production. Table 3 shows the distribution of University personnel by service units/functions:

Some University personnel like faculty members were assigned with multiple functions. Aside from instruction, they were involved in research, extension, administration and production.

Table 3. Number of personnel involved in the different services/functions of the University

Service/Function	Number of Personnel
General Administration and Support Services	242
Academic Affairs	302
Student Welfare and Services	24
Research and Extension Services	115
Production	75

In the exigency of the service, some qualified non-teaching personnel of the University were also assigned teaching loads in their field of specialization.

Faculty Distribution by College



SINGING PROFESSORS. They do not only teach, some members of the CAS faculty can also render a chorus during Monday's flag raising ceremonies.

For school year 1998-1999, there were a total of 302 full-time faculty of the University (Table 4 and Figure 1). These were distributed to the nine different colleges and institutes of the University. Most of the faculty members were assigned to the College of Agriculture (30.13%), College of Arts and Sciences (24.17%), and College of Teacher Education (23.5%). The rest were assigned at the Colleges of Engineering, Forestry, Home Economics and Technology, Veterinary Medicine and Institute of Physical Education.

Table 4. Distribution of faculty by colleges and institute (1998-1999)

COLLEGE	NO. OF FACULTY	PERCENTAGE (%)
CA	91	30.13
CAS	73	24.17
CEAT	12	4.00
CF	13	4.30
CHET	13	4.30
CN	9	2.98
CTE	71	23.50
CVM	13	4.30
IPES	7	2.32
TOTAL	302	100

-VPAA Report

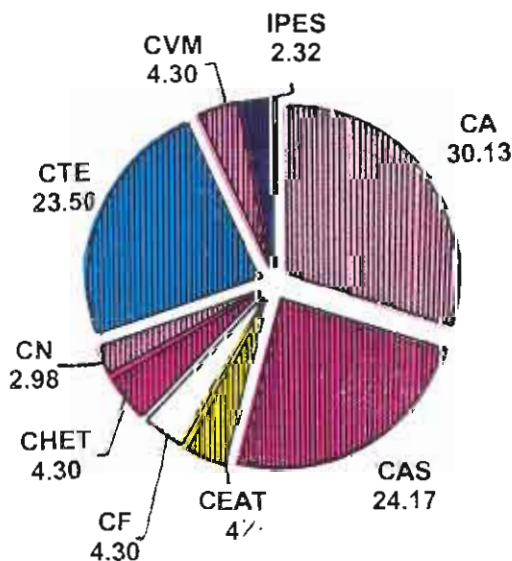


Figure 1. Distribution of faculty by College

Distribution of Faculty by Academic Rank

Out of the 302 full-time faculty members of the University, 104 (34.4%) had the rank of Assistant Professor, 73 (24.1%) were Associate Professors, 63 (21%) were Professors and 62 (20.5%) were Instructors (Table 5 and Figure 2). The ranking of faculty members was based on the last NCC 69 of 1995. The evaluation for 1998 is still on-going.

Table 5. Faculty distribution by academic rank

COLLEGE	INST.	ASST. PROF.	ASSOC. PROF.	PROF.	TOTAL
CA	18	25	25	23	91
CAS	11	22	18	22	73
CEAT	4	6	0	2	12
CF	6	7	0	0	13
CHET	3	5	2	3	13
CN	3	5	1	0	9
CTE	13	24	24	10	71
CVM	2	9	0	2	13
IPES	2	1	3	1	7
Total	62	104	73	63	302
%	20.5	34.4	24.1	21	100

Faculty Distribution by Degree

The University has already developed a strong pool of experts that could satisfactorily discharge any given task. As shown in Table 6, at least 25.8% of the faculty members possess Doctorate degrees, 43.7% have master's degrees, and 30.5% have Bachelors' degree. Some faculty members are still currently pursuing higher degrees in their specific fields of specialization.

Table 6. Faculty distribution by degree

COLLEGE	BS	MS/ MA	PhD./ EdD.	TOTAL
CA	19	41	31	91
CAS	15	34	24	73
CEAT	6	5	1	12
CF	5	7	1	13
CHET	6	5	2	13
CN	3	4	2	9
CTE	26	30	15	71
CVM	9	3	1	13
IPES	3	3	1	7
TOTAL	92	132	78	302
%	30.5	43.7	25.8	100

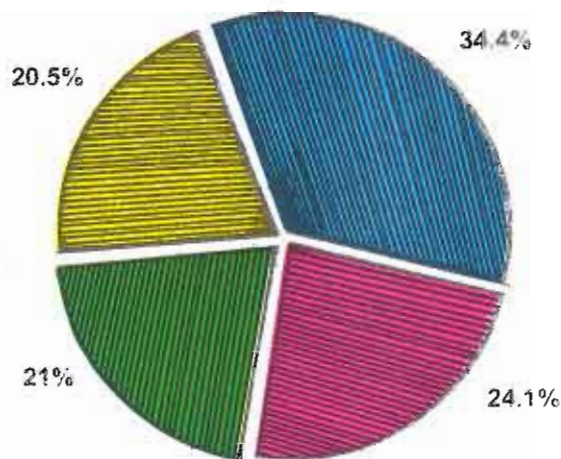


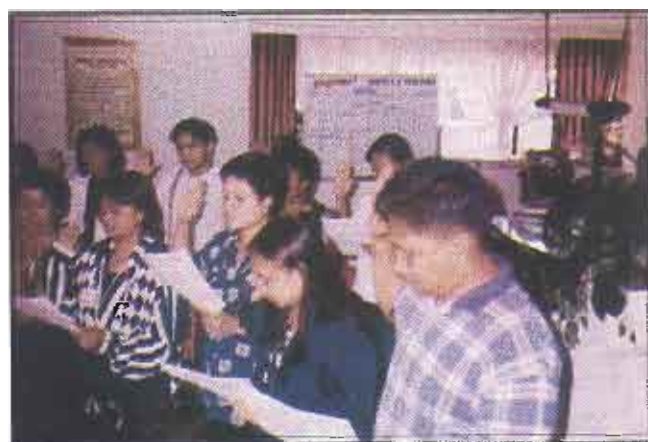
Figure 2. Distribution of faculty by academic rank

Average Faculty Workload

The average faculty workload of the University for the first and second semester, SY 1998-1999 was 20.56 units. Table 7 shows that the colleges with faculty workload of more than 18 units were: CN, 24.07; CTE, 21.92; CAS, 21.84; IPES, 21.78; CF, 20.57; CA, 19.85; and CEAT, 19.50. Only CHET and CVM had an average workload of less than 18 units.

Table 7. Average faculty workload by college (1998-1999).

COLLEGE	1 st Semester	2 nd Semester	AVERAGE Units
CA	20.12	19.59	19.85
CAS	22.77	20.91	21.84
CEAT	18.68	20.32	19.50
CF	20.27	20.95	20.57
CHET	16.54	18.92	17.73
CN	23.29	24.86	24.07
CTE	22.44	21.41	21.92
CVM	16.63	14.83	15.73
IPES	21.43	22.14	21.78
Average	20.87	20.26	20.56



Newly hired faculty and staff taking their oath of office.



5th Annual convention of government Information Technology Professionals (GO-IT) National conference. Staff from different sectors of the University attended this activity last Nov. 25-27, 1998 at the Green Valley Hotel & Resort, Baguio City. The keynote speaker was Hon. Sec. William G. Padolina, Hon. Leandro Verceles Jr., members, House of Representatives who spoke on RPWEB update.

INSTRUCTION

Accreditation Status of the Colleges

The College of Arts and Sciences was accredited level II for the first visit. The Colleges of Agriculture, Nursing, Teacher Education and Graduate School programs for Agriculture were accredited level II and are expected to be revisited for the next level by the year 1999. Only the Colleges of Engineering, Forestry and Home Economics are still in level I. These will also be revisited by the year 1999.

Table 8. Accreditation status by College

COLLEGE	LEVEL	PROSPECTIVE DATE OF EVALUATION FOR NEXT LEVEL
CA	II	June-July, 1999
CAS	III (1st revist)	
CEAT	I	1st Sem. 1999-2000
CF	I	1st Sem. 1999-2000
CHET	I	March 1999
CN	II	March 1999
CTE	II	March 1999
CVM	II	March 1999
GS	II (Agricultural Programs)	March 1999

Board / Licensure Examination Performance, 1998

The performance of the graduates of the University in Board/Licensure Examinations were satisfactory as indicated in Table 9. Based on BSU

passing rates and in relation to the national passing rate, the best performing Colleges were Nursing, Teacher Education and Veterinary Medicine.

Table 9. Board/Licensure examination performance for 1998

COLLEGE	LICENSURE EXAM	PASSING RATE	
		BSU	National
CEAT	Agricultural Engineer	47.30	50
CF	Forester	39	-
CHET	Dietician & Nutritionist	33	70
	BSHE-LET	60	75
CN	Nurse	81.47	54.1
CTE	BEE-LET	84	45
	BSAE-LET	65	36
	BSE-LET	71	36
CVM	Veterinarian	53	41.6

Graduates



The graduates, parents and guest at the BSU close gym.

The University has produced a total of 1,126 graduates in May, March and October, 1998. They were composed of 41 from the Graduate programs; 744 Undergraduates; 101 Non-degree programs; 99 from the Secondary; and 141 from the Elementary level (Table 10).

Table 10. Number of graduates by program/course for 1998

PROGRAM/COURSE	May 1998	March 1998	Oct. 1998	TOTAL
Graduate Program				
PhD./ EdD.	0	7	4	11
MS/MA/MPA	4	22	4	30
Sub-Total	4	29	8	41
Undergraduate Program				
BS in Agriculture	13	120	23	156
BS in Agribusiness	5	34	6	45
BS in Environmental Science	0	0	0	0
BS in Applied Statistics	0	2	0	2
BS in Agr'l. Engineering	6	21	2	29
BS in Forestry	0	49	13	62
BS in Nutrition and Dietetics	3	26	3	32
BS in Home Economics	1	22	0	23
BS in Nursing	0	27	0	27
BS in Agricultural Educ.	0	58	2	60
BS in Elementary Educ	15	119	0	134
BS in Secondary Educ.	3	126	8	137
BS in Animal Technology	3	16	8	27
Doctor of Veterinary Medicine	0	10	0	10
Sub-Total	49	630	65	744
Non-degree Program				
5 Months Basic Auto-Technician	0	19	22	41
Forest Ranger	0	6	4	10
Certificate in Home Management Arts	0	20	0	20
Diploma in Agro-forestry	2	17	1	20
Diploma in Physical Education	6	4	0	10
Sub-Total	8	66	27	101
Secondary Lab	0	99	0	99
Elementary Lab	0	141	0	141
Total	61	965	100	1,126

Table 11. Enrollment by program/course for summer, first and second semester, 1998-1999

PROGRAM/COURSE	SUMMER 1998	1 st Sem	2 nd Sem
Graduate Program			
PhD./EdD.	37	96	97
MS/MA/MPA	313	420	441
Sub-Total	350	516	538
Undergraduate Program			
BS in Agriculture	133	1098	1011
BS in Agribusiness	58	129	120
BS in Environmental Science	28	255	246
BS in Applied Statistics	0	53	50
BS in Agricultural Engineering	92	199	150
BS in Forestry	119	296	269
BS in Nutrition and Dietetics	14	172	166
BS in Home Economics	68	362	340
BS in Nursing	0	118	103
BS in Agricultural Education	0	229	233
BS in Elementary Education	0	573	568
BS in Secondary Education	0	611	600
BS in Animal Technology	0	94	78
Doctor of Veterinary Medicine	58	221	213
Sub-Total	570	4410	4147
Non-Degree Programs			
5 Mos. Basic Auto-Technician	0	29	19
Forest Ranger Course	12	57	60
Certificate in Home Management Arts	0	59	45
Diploma in Agro-forestry	0	74	69
Diploma in Physical Educ.	0	44	33
Cross Enrollees	0	0	2
Sub-Total	12	263	228
Secondary Laboratory	0	550	550
Elementary Laboratory	0	515	515
Total	932	6,254	5,978

Enrollment

As shown in Table 11, 932 enrolled during Summer 1998; 6,254 during the 1st Semester and 5,978 during the 2nd Semester of SY 1998-1999.

The decrease in enrollment during the 2nd Semester could be attributed to the shifting of courses by the students, transferring to other schools or due to financial problems.

Graduate School



Dr. Julia A. Solimen, Dean of the Graduate School (seated frontrow, leftmost) share a light moment with some graduate students in one of their meetings.

The Graduate School is a regular program of the University that implements the Graduate programs of the College of Agriculture (CA), College of Arts and Sciences (CAS), College of Forestry (CF), College of Home Economics and Technology (CHET), the Institute of Physical Education and Sports (IPES) and the Institute of Public Administration (IPA).

It spearheads the preparation, implementation, development and evaluation of the graduate curricular courses. It takes care of the admission, registration, transfer of credits and other curricular activities of graduate students. Furthermore, it facilitates the procurement of books, equipment and other facilities for the maintenance of quality graduate education.

Two years after the transfer of the Office of the Graduate School from the administration building, an e-mail address (bsugrad @ burgos. slsu. edu. ph) was installed to serve the internet of graduate students and its faculty and staff as well.

Despite limited manpower resources to run the Office, regional, national and international linkages were made. On the regional level, linkages with the Philippine Association for Graduate School were sustained. On the national and international level, the Graduate School made linkages with the Funding Assistance for Private Education (FAPE) and the AED-US Aid for International Development.

A total of 81 graduate students enjoyed full/partial tuition fee discounts, in line with the Graduate School's scholarship program.

On the other hand, 11 faculty members and five staff of the University were granted a thesis/dissertation assistance amounting to P210,000.00.

College of Agriculture

Due to the achievements of faculty, staff and students, the College has become the center of Excellence in Agriculture for the Cordillera region.

For the year under review, the College has received local, regional and national awards and



Rep. Tessie Aquino-Oreta accepting from Dr. Sonwright B. Maddul, dean of the College a project proposal for commendation.

recognition from various line agencies.

On the national level, the College, represented by some students won 3rd place in the 4th National Agricultural Science Quiz contest held last February 25, 1998 at the University of the Philippines, Los Banos, Laguna.

Leading the individual faculty awardees is Dr. Edwin T. Balaki, current director of the University extension office. Dr. Balaki was chosen as a Lingkod Bayan Awardee by the Civil Service commission. As shown in Appendix 2, four other outstanding faculty members received recognition for their accomplishments in research.

Other faculty members and students of the college were also recipients of various awards during the inter-college and or department competition held in the University.

For a more conducive learning atmosphere for students of the Department of Animal Science, the old slaughter and ham-making building at the swine project area was totally renovated and was transformed into an animal breeding and physiology laboratory. This was made possible through the countrywide development fund of Senator Miriam P. Santiago.

In the field of scientific research, ten (10) were completed and seven (7) other private funded researches were conducted by members of the College faculty. Thirty-five (35) are on-going while a total of thirty-eight (38) proposals were submitted to concerned offices. CA Faculty Researches are listed under the different institutes/centers (See Annexes).

For training, extension and outreach activities, the College conducted two training activities, and completed six outreach services in La Trinidad, Baguio City and in Banaue, Ifugao. Three other outreach programs are on-going at Sablan and in Tublay, La Trinidad, Benguet.

In the student-supervised farming program of the College, a total net income of P129,353.58 was generated.

Five manuals/teaching guides, seven pamphlets/brochures/leaflets containing agricultural topics were developed and printed for public consumption. Several "newsables" were published in the local and national newspapers and some in various research journals.

Four Japanese International Cooperation Agency (JICA) volunteers with expertise in sericulture and mushroom production and three visiting professors from the Netherlands and Belgium who taught chemistry, horticulture and international economics were accommodated by the College.

For proper disposition or action of agriculture-related activities of the University, a BSU R & D technical working committee for various fields was organized. The different chairpersons and members were drawn from the College of Agriculture.

With the aim of better service to the general public, two additional faculty members were hired for the College.



Dr. Sonwright B. Maddul (leftmost) congratulating a student-winner while Dr. Franco T. Bawang (center) is about to hand a prize to the winner during the "Paskuhan sa CA."

College of Engineering and Applied Technology



Engr. Genaro W. Macasieb Jr., Dean of the College of Engineering and Applied Technology (CEAT) (leftmost), supervising CIRDUP staff during the inspection of a shallow tube well that was installed at Rizal, Kalinga.

With the College as implementor and the Department of Agriculture (DA) as funding agency, a research project amounting to P814,000.00 entitled "Comprehensive Irrigation R & D Umbrella Program" or CIRDUP, was launched in August, 1998. This research project aims to address irrigation problems in the Cordilleras.

Simultaneously with this project is the



BSU-ANEC staff and some residents installing a 3-kilowatt microhydro system at Betwagan, Sagada, Mt. Province. An extension project of the College.

Affiliated Non-conventional Energy Center (ANEC) and continuing assistance for the promotion of non-conventional energy in various areas of the Cordillera region.

The acquisition of additional books and other library facilities including the temporary installation of a fax machine in the College enhanced the instruction and facilitated the linkage of the College with outside agencies.

College of Arts and Sciences



CLASS OBSERVATIONS. One of the accreditors (foreground) observing a mathematics class during the accreditation of the College.

The College of Arts and Sciences offer not only general education courses to all students enrolled in different courses, either in the degree or non-degree, including the Graduate School but also degree courses.

Among the recipients of individual awards is Professor Edith B. Guitelen, who was given the Gawad ng Pagkilala by the Komisyon ng Wika. Four other faculty and staff members were awarded the Best Poster Presentation-Regional Symposium on R & D by the Highland Agricultural Resource Research and Development Consortium (HARRDEC).

On scholarship matters, six faculty members were recipients of international scholarships while three others were granted local scholarships.

A total of 53 regular faculty members of the College were sent to attend conferences, seminars and conventions while one was granted a sabbatical leave to write a book on simplified logic and set theory.

As far as consortium/part-time faculty is concerned, fifteen qualified faculty/staff from other Colleges and Offices of the University, were tapped to teach subjects at the College. One from the Department of Environment and Natural Resources- Cordillera Administrative Region (DENR-CAR) served as consortium professor.

The College has completed four researches, five are on-going and three proposals were submitted to concerned offices for possible funding allocation. The College has also conducted four private-funded projects during the year.

To foster better relationship with other schools, the College has adopted the Madaymen National High School and the Amposungan National High School. Both are government schools in Benguet Province.

Apart from this, the College conducted training-seminar workshop on low cost teacher-made instructional materials, had dialogues with outside school teachers, made information and education campaigns about the Cordillera Autonomy, and disseminated information on the Visiting Forces Agreement, drug abuse and globalization, among others.

In addition, lectures on teaching strategies, journalism and leadership training involving students were extended by the College to its adopted schools. In consonance with the faculty exchange program between the Sanju National University and BSU, a mentor of the College went to Korea and taught English subjects for a year.

Publications made by the College include "Ti Saringit" and "Kalikasan". Others were laboratory manuals in physics, mathematics and lecture notes in Mathematics.

On infrastructure, the completion of a six-room building at the CAS Phase II provided much-needed rooms for Filipino and Social Science classes.

For enrichment and to gain first-hand information and experience, some faculty members went on educational field trips to various places like Rizal Park, Planetarium, Fort Santiago, Manila Zoo, Calamba, IRRI, UPLB in Laguna and to other educational sites.



STUDENTS' PARTICIPATION. Some students of the College prepare themselves for a parade in one of the University's activities

College of Home Economics and Technology



These two students from Bicol University are a few of the trainees of the Skills Application Training (SAT) project of the College.

The College of Home Economics and Technology (CHET) marked another year of achievement in 1998 as it continued to improve its curricular offerings and implement a faculty development program; strengthen its research and extension activities; encourage production activities among the departments of the College; and intensify its linkages with internal and external agencies.

During the year in review, the College was adjudged as the most outstanding in the academic exhibit competition during the BSU Foundation Day.

The improved Bachelor of Science in Home Economics (BSHE) curriculum with major fields in Technology and Home Economics (T.H.E.) and the Home Economics and Livelihood Education (H.E.L.E.) were approved for implementation in June 1998 by the BSU Board of Regents.

The research activities of the College have improved due to the involvement of additional faculty members of the College.

For the year under the review, the College completed one research; two are on-going and four research proposals were submitted to the Office of the Director of Research for funding by concerned agencies.

A faculty member of the College who holds a professorial chair under the Philippine Agriculture and Resources Research Foundation, Incorporated (PARRFI), came out with a handbook entitled "Strawberry Processing for Small Scale Industries".

The College adopted the Barangay Integrated Development Approach for Nutrition Improvement (BIDANI) program as its flagship extension activity. Other extension activities of the College include the Skills Application Training (S.A.T.), Student Outreach Program (S.O.P.) and

Consultancy/Expert Services (C.E.S.).

The College also sought linkages with local and national agencies, local government units and non-government entities. Among the active partners in this endeavor were the Regional Training Program for Food and Nutrition Planning (RTP-FNP), National Nutrition Council (NCC), Department of Agriculture (DA), Department of Science and Technology (DOST), Department of Social Welfare and Development (DSWD), Department of Health (DOH), Department of Education, Culture and Sports (DECS), University of the Philippines at Los Banos (UPLB), Central Luzon State University (CLSU), local governments of Itogon and Tublay and the food establishments and hospitals in Baguio, including St. Luke's Hospital in Quezon City.

In terms of contribution to the production activity of the University, the CHET has detailed three of its faculty members as managers of the food processing center, the bakery and the dress shop. A net profit of P1,309,368.45 from these income-generating projects were remitted for the year.

As a medium of disseminating the activities of the College, the "CHET" Quarterly and the R & E, BIDANI News, were circulated nationwide.



"BIDANI". The legacy of the Barangay Integrated Development Approach for Nutrition Improvement, is being introduced by CHET faculty to Mr. Sotero Cariño, barangay captain of Central Tublay, Tublay, Benguet.

College of Forestry



As an extension project of the College, a nursery for mahogany, papaya and Gmelina seedlings was established in Banangan, Sablan. This project is in collaboration with the Agro-forestry Support Programs for Empowering Community Towards Self-Reliance (ASPECTS) -Luzon.

After almost twenty-three years of sharing offices and classrooms with other units of the University, the College finally occupied its own new College of Forestry building. This subsequently brought positive changes in the College.

Among them includes the conduct of the Colleges' first summer classes and review, hiring of a new faculty member, detailing of a utility worker and an office clerk by the administration and the participation of two regular faculty members in a local scholarship at UPLB.

Towards the end of the year, the College's request for supplies and equipment including the installation of a telephone was realized.

During the year, the College experienced an unprecedented succession of three deans. A new dean was designated after the expiration of the term of the incumbent but he resigned after serving a month due to illness. Hence, the designation of a third Dean for the College.

One of the pioneer faculty members of the

College was detailed to the CHED central office. Her functions in the College was undertaken by a substitute instructor.

Students of the College have also participated in tree planting activities, extension seminars and four represented the University in Iloilo during the 4th ASEAN National Forestry Student Congress.

In coordination with UPLB, MOSCAT, DATEC, CLSU and DSAC, the College developed the BS Agroforestry Curriculum. Moreover, the College initiated possible means of building stronger support ties with Korea's Sanju National University (SNU) officials to support a scholarship program on the study and growth of trees.

For the extension activities of the College, a one-day training on plant propagation was conducted for the farmers group of Sta. Cruz, Daliga. Tree planting activities were done with students at Camp John Hay, Baguio City, Cabiten Community and Labey, Tublay.

As far as research is concerned, one was completed, one is on-going and four others were submitted for funding allocation by concerned offices.

Manuals and monographs were also written for use of students in the College.



Dr. Rogelio D. Colting, (seated 2nd from right) VP for Research and Extension presides in one of the ASPECTS project facilitating team meeting.

College of Nursing



Extension Service of the College of Nursing (Training of selected Nurse Instructors of Colleges of Nursing in Region 1 & CAR on Family Planning Methods)

The College of Nursing (CN) is tasked to provide a sound and professional academic foundation for the practice of nursing. It trains students to be competent, responsible and committed in rendering quality nursing care to individuals, families and to the community in general.

During the 13th University Charter Day Celebration last January 13, 1998, the College was awarded 1st place in the academic exhibits by the Office of the Vice President for Research and Extension.

One of its students, Maru Luis Ladilad, who graduated Cum Laude last March 1998, was one of the recipients of the Ten Outstanding Student of the Philippines- Cordillera Administrative Region (TOSP-CAR).

Other significant accomplishments of the College include the organization of the communities of Balukas, Shilan and Abiang, Atok to be self-sufficient and self-reliant in health matters.

These areas were also the project venue of

a collaborative outreach program between the College and the United Kingdom where students from this country and assigned extension workers of the College launched several health-care projects and activities.

Dr. Florence C. Cawaon, Dean and Professor of the College authored a textbook entitled "Introduction to Nursing Management Functions: A Handbook for Student Nurses," and was published in October, 1998 by the Educational Publishing Home, Inc., Manila.

Other publications of the College were a research journal and a newsletter called "CN Notes".

The College also purchased a maternal delivery model and a microscope for instructional purposes.

As regards faculty development, one faculty member is expected to finish his Doctor of Medicine degree and another her Master's degree before 1999 ends.

The College has completed 10 institutional researches with nine on-going. The College has proposed four other researches along health care for funding and implementation in the future.



College nursing students providing blood pressure check-up to the general public during BSU's 13th University Foundation Day.

College of Teacher Education



THE CHAMPION. Some students of the College display the trophies they've won and as over-all champion during the University Intramurals 1998.

The College produced 10 Cum Laudes during the 74th Commencement Exercises last March, 1998. Three finished the Bachelor of Secondary Education degree while seven were Bachelor of Elementary Education graduates.

One student distinguished herself in the 1998 Palarong Pambansa by winning the bronze medal in women's marathon while a secondary student won 1st place in regional and national oratorical contest.

Four other students, including a finalist for the Ten Outstanding Students of the Philippines -



The College of Teacher Education takes it all.

CAR won honors in different categories in a regional competition.

On faculty matters, a total of 46 out of the 70 regular faculty members of the College have attended national, regional and local conventions, workshops and seminars.

On scholarship grants, one faculty is pursuing his Ph.D. in Horticulture at the University of Western Sydney, Australia and three others in Baguio City.

As reported, five out of 10 researches were completed by some faculty members of the College at their own expense while the rest were partially done and are now being processed for implementation. One private-funded research was completed.

As of this writing, there are four on-going research projects and four research proposals of the College.

To develop and at the same time promote the basic concepts of education, instructional manuals, reviewers and monographs were written for the students by some faculty members of the College.

College of Veterinary Medicine



HOG DISPERSAL PROJECT. Some beneficiaries of the College's Hog Dispersal Project in Balakbak, Kapangan, Benguet along with Dr. Basito S. Cotiw-an, (leftmost) Dean of the College and Prof. Gerry Y. Pol-as (rightmost) show-off some healthy piglets

This year, the excellence in education that the College imparts to its students was exemplified by the 8th place copped by one of its graduates, Abdon Daw-as, in the national licensure examination for veterinarians given by the Philippine Regulatory Commission last August, 1998.

To sustain such excellence, the College is continuously pursuing its faculty development program. In this conjunction, one faculty member of the College reported back for duty after completing her master's degree in aquaculture at the University of Ghent, Belgium.

Another faculty member attended a three-week training on "Epidemiological and Economic Investigation as a Basis for Animal Health Program" at Feldafing, West Germany.

Other faculty members of the College attended relevant workshops and conventions.

Under the annual dispersal project of the College, 10 breeding female weaners were distributed to qualified farmers of Kapangan, Benguet. However, this must be paid when the gilts will furrow. This project of the College primarily aims to distribute good quality stocks of pigs and at the same time serve as an outreach production project for both students and faculty members of the College.



ANTI-RABIES VACCINATION: One of the dogs within the reach of the College being vaccinated.

This year, 70 dogs located at different areas and within the reach of the College were vaccinated with anti-rabies and about 326 laboratory analysis (Fecal and blood samples) were jointly conducted by faculty members and some graduating /senior students.

The College also undertook other extension activities and took charge of the full operation of the poultry and dairy cattle projects of the University. As to the latter, three animals gave birth and are now producing milk for sale.

Institute of Physical Education and Sports



Prof. Francisco R. Aquino (In coat), Director of the Institute of Physical Education and Sports (IPES) and several PNP-PE student-scholars.

Despite the decrease in enrollment in the Institute, 13 Diploma in Physical Education, five Master in Physical Education and Sports and one Certificate in Physical Education student graduated during the year in review.

As far as faculty development is concerned, one finished a two-year teacher training program in Japan under the Monbusho scholarship.

The rest of the faculty members participated in national and regional training that included sports officiating, folkdance workshop and refresher course and national accreditation

examination of technical officials for the 1998 Palarong Pambansa at different dates and venue.

In line with the extension program of the University, the Institute extended its effort for the promotion and conduct of physical education and sports during the Cordillera Administrative Region Tertiary Education Sports Association (CARTESA), meet and Palaro '98.

The use of the University sports equipment, complex and other sports facilities by outsiders generated an income of P159,640.00 and was deposited as a trust fund for the Institute.

Institute of Public Administration



Professor Theodore E. Arciso, Director of the Institute of Public Administration looks on at the 3rd batch of public administration graduating students.

This year, a total of 106 enrolled in the Institute of Public Administration. One student defended his masters thesis last summer 1998, five passed their comprehensive examinations and thesis proposals on different dates during the 1st semester and four graduated in March, 1998.

Two of the four faculty members of the Institute, were hired as consortium professors.

The renewed term of the Director of the Institute for another three years took effect last June 1998. He was also designated to chair the Institute of Local Government Administration for the province of Benguet. Consequently, a training seminar-workshop for the newly elected members of the different municipal government of Benguet last September 2-4, 1998 was conducted.

Prior to the actual teaching of the short-term courses and degree programs in the Open University, the professors as well as trainers concerned were required to prepare their instructional modules. Consequently, 32 (for the master's degree), 13 (for the short-term courses), and 5 (for the diploma courses) instructional modules were prepared for the year.

In terms of manpower resources, several faculty members and staff of BSU shared their expertise. Others were tapped from NGOs, GOs, LGUs and private practitioners in the region.

Open University



Trainees of Cutflower and Ornamental Plants Production course express their satisfaction with radiant smiles on the technology of producing beautiful Chrysanthemum. Chrysanthemum is a commodity with great market demand in the flower industry.



Dr. Juliet P. Bagano (3rd from left) and other Coordinators of Open Universities in the country participate in a conference in Manila.

The year 1998 is the second year of operation of the BSU Open University program. During the year in review, a total of 357 enrolled in seven-degree programs. Out of 1,525 who enrolled in 18 short-term courses, 497 graduated.

Office of the Student Affairs

Through the forging of a memorandum of agreement, a collaborative program between BSU-OU and the Technical Education Skills Development Authority (TESDA) of Benguet Province paved the way for the offering of six new industrial courses: 1) basic baking; 2) basic dressmaking ;3) basic tailoring; 4) food processing; 5) automotive maintenance mechanics; and 6) practical electricity.



(Left to right) Prof. Wilfredo B. Mina, Director of Student Affairs; Dr. Marcos A. Buliyat, VP for Academic Affairs; President Ciripriano C. Consolacion and Prof. Olga C. Dangwa listen to the concerns of students.

1998 was the launching of Project: BSU Aspiring Men and Women as Ambassadors of Nobility and Integrity (BAYANI). This project highlighted the vigorous, expanded and training of the student leaders in various fields of specialization and endeavor. Through concerted efforts, the Office of the Student Affair (OSA) facilitated the preparation and participation of BSU in national and international events such as the National Centennial Celebration, attendance to national seminars, workshops, conferences, and trainings, RP-Japan Friendship Program for the 21st Century, and sustained involvement in the Ombudsman Crusade against Anti-Graftwatching through the involvement of BSU's Junior Graft Unit.

Student welfare has always been a priority of the OSA. Through its "TUTOK" approach to guidance and counseling and teamwork, the OSA has delivered student personnel development services with full support from the administration.

For coordinating the Search for the Ten Outstanding Students of the Philippines, the Office was awarded a certificate of recognition by RFM Foundation, Inc., CHED-CAR, and the Rotary Club of La Trinidad.

Besides the low tuition, the University granted scholarships to poor but deserving students. For the first semester of School Year 1998-1999 (Table 12), a total of 136 students were given National Government Scholarships and Grants, 25 were sponsored by the private sector, and 342 were given BSU local scholarships and grants making a total of 503 scholars.

Table 12. Summary of awarded scholarships and grants, school year 1998-1999

Type of Scholarship	First Semester	Second Semester
I. Government/ National		
a. SSP	2	2
b. NISGP	21	19
c. SEGEAP	29	26
d. LPAF	3	3
e. SNPL	5	5
f. DOST	20	20
g. DSWD	1	2
h. PAF	37	41
i. ONCC	18	168
Subtotal	136	287
II. Private		
a. LTFI	11	11
b. CFO	1	
c. PNB Foundation	2	2
d. EFI	5	
e. PAARFI	2	
f. Dr. D. Sup Lee	1	
g. Romero Foundation	1	
h. KITI	2	
Subtotal	25	13
III. Institutional/BSU		
a. Honorific/Entrance Scholars	5	
b. Academic scholars	5	6
c. Glee Club	34	26
d. KONTAD	27	29
e. SINAGTALA	21	29
f. SSC	1	3
g. MC	9	7
h. ROTC	11	5
i. Athletes	41	48
j. BSU-CAR	2	2
k. BSU Plantilla Dependents	37	48
l. CHED-DILG	16	12
m. Local Government/ Barangay & SK	133	86
Subtotal	342	301
GRAND TOTAL	503	601

During the second semester, there was a 20% increase in the number of scholars and grantees for a total of 601. This was mainly attributed to the tremendous increase in the number of Office of the Northern Cultural Communities scholars (ONCC).

For the School Year (SY) 1998-99, most of the students came from Benguet Province followed by Mountain Province, Kalinga, Apayao, Pangasinan, Ifugao and La Union; the rest came from other places like Baguio City, Abra, Ilocos and from Central Luzon and the Visayas Island.

As reported by the OSA, the total collections from the men's and ladies dormitory amounted to P298,725.00. This amount was collected for the use of washing machines at the men's dormitory, transient fees at the ladies dorm and from the monthly dues of the dormitorians. Increase of monthly rental of students from P75.00 to P100.00 took effect in the month of June

University Library Services



A librarian attending the needs of student borrowers.

As of December 1998, the University Library has a total of 31,021 volumes of books, 1,992 various journals and pamphlets, 7,257 theses/dissertations and other reading materials. With these books and other library materials, record shows that 3,788 students, 951 faculty and staff members of the University and 372 outsiders visited the library for their respective interests.

New print material acquisitions include

599 volumes of books purchased, 502 volumes were donated and a total of 720 periodical titles were acquired through subscription, gifts and exchange.

For audio-visual and non-print materials, there was an increase in the number of cassette tapes and microfiches. The number of CDROMs and VCR tapes remained the same as last year's.

Table 13. Library materials acquired by the University Library as of 1998

ITEMS	MODE OF ACQUISITION	TOTAL NUMBER
Books	Purchased	599
	Gifts/donations	502
Theses		7,251
Periodicals	Subscription	720
	Gifts/Exchange	
Audio-Visual		
CD-ROM		24
VCR Tapes		91
Cassette Tapes		24
Microfiches		95
Pamphlets		1,992

Due to disconnection of internet services from March to July, 1998, the number of clients served decreased. Records also shows that 277 BSU faculty members and students and 278 outsiders availed of the intra-library consortiums among other schools in the Cordillera.



The periodical section of the University library.

Health Services



Dr. Villa L. Formaran, University physician conducts physical check-up of students annually.

Based on the report submitted by this Office, the establishment of an infirmary and a mini-medical clinic and drug store was strongly recommended to address medical and dental problems experienced by students, faculty members and staff of the University.

Despite the lack of manpower and meager resources necessary for the promotion of good health, record shows that almost half of the total student population for the year came for clinical consultations and examinations.

Prevalent cases found among the patients were problems on the respiratory system, head, eyes, ears, nose and throat.

Communicable diseases such as influenza, conjunctivitis, scabies, fungus or eczema, including dengue were also reported. Minor accidents treated were due to lacerations, abrasions, inflammation and burns.

As a preventive measure against these communicable diseases including dengue, this Office administered a fumigation of chemicals to suspected breeding and pooling places of insects and mosquitoes.

With the assistance of the clinic staff and the use of the X-ray machine of the College of Veterinary Medicine, radiology services for animals, CBC, urinalysis and fecalysis of University personnel and students can now be availed of at a very minimal cost.

On the other hand, 767 availed of the University's dental services where 699 were found with dental defects. Of this figure, a total of 450 patients were treated.

As regards oral prophylaxis, 255 patients were given treatments, 175 had tooth extractions, 288 had tooth fillings and 22 others were treated with gum problems.

The services of the medical/dental personnel were also tapped during the sports activities. They also served as resource speakers during the launching of the Non-Formal Education (NFE) program of the University and the Department of Education, Culture and Sports (DECS).

Issuance of medical certificates for various purposes to BSU employees also kept this Office busy for the rest of the year.



DENTAL EXAMINATION. Dra. Teresita A. Palaez, University Dentist examining and recording students' dental conditions.

RESEARCH

1. Crop Improvement and Seed Technology

Thirteen (13) biparental crosses of garden pea were successfully made in the hybridization block during the dry season. Twenty entries of garden pea were included in the replicated yield trial for further evaluation in terms of yield, pod characters and overall yield performance. Eight promising entries of garden pea were seed-increased.

In addition, 20 lines of garden pea were evaluated for green-shelled pea production. The variety CGP38 significantly had the highest number of seed per pod. CGP 39 and CGP 152 significantly had the highest number of pods per plot and heaviest pod per plot.



Oyster Mushroom (Pleurotus sajor-caju) found to be adapted for whole year-round production in Benguet.

Four oyster mushroom (Pleurotus) and two shitake (Lentinula) strains were found to be adaptable to Benguet conditions. These are *P. hybridus* (white and grey), and *P. sajor-caju* No. 503 and 03. For Lentinula, the *L. edodes* and the BCI strain adapted very well to Benguet conditions.

Return on Investments (ROI) for the Pleurotus strains range from 150 to 250% whereas ROI for the Lentinula species range from 150-

200%, making mushroom growing very profitable in Benguet.

In apple, six varieties were discovered to be promising and adaptable. These are Rome Beauty, Dorsett Golden, Ana, Prince Noble, Cahort #1 and Winter Banana.

For rice, two of the five test entries adapted very well in cool elevated areas in terms of yield, agronomic performance, maturity, height and tillering ability.

Two varieties of processing potatoes (Snowden and 385130.5) were found to be highly adaptable in the highlands. In addition, seeds of the King Umbel carrot variety harvested at 50 days after flowering have significantly higher germination percentage against those harvested earlier

Sweetpotato adapted to high-and lowland



Dakol and Ganga were some of the BSU sweetpotato entries that were tried under high- and lowland conditions.

conditions in terms of yield, and acceptability and general adaptability were also identified. In taro, the variety Mindanao adapted very well to highland conditions as it gave the highest yield and was very acceptable among the highlanders.

2. Crop Management Practices

With respect to strawberry, chilling plants for four weeks at 5°C before transplanting in-

creased yield for the first two months of harvest but yield was the same as that of unchilled plants during the third to fifth month.

The response of roses to different rates of organic and inorganic fertilizers was also studied. Results show that the application of 8.0t/ha. of chicken manure significantly increased cutflower yield in terms of quantity and quality.

Application of triple 110 inorganic fertilizer produced taller plants with more long-stemmed cutflowers. This has improved cutflower quality and increased cutflower yield to 125 cutflowers per five-square-meter area.

Lower amounts of organic and inorganic fertilizer delayed flowering and produced small flowers on shorter stems.

In garden pea, flooding once in two weeks significantly increased seed yield.

In potato, the variety Igorota was found to produce higher yields when the plant was spaced closer (15 x 15cm.). Granola and Solibabo produced more big to jumbo-sized tubers per plant when spacing was increased to 30 x 30 cm. Between hills and rows.

3. Tissue Culture and Mass Propagation



A research specialist explaining the procedures involved in tissue culture to visitors from Camarines Sur.

Cutflower growers in the Cordillera can now obtain disease-free new lines of anthurium

from the BSU Floriculture Project.

A limited number of acclimatized plantlets of colored callas and strawberries are also available.

4. Pest Management

Five fungal antagonists of potato cyst nematodes were isolated and identified from the potato growing areas in Benguet and Mountain Province. Two rhizobacterial isolates were found effective in controlling Fusarium wilt in garden pea while three bacterial antagonists have strong potential in controlling clubroot in crucifers.

Also, five potential antagonists were selected from 15 isolates in controlling the prevalence of *Ralstonia solanacearum* in potatoes.

A study was also undertaken to determine the effect of physiological factors on the growth of bacterial wilt. Results show that ultraviolet light killed the bacteria at an exposure time of 80 seconds and above. It was also learned that the bacteria dies when exposed to a high temperature of 90°C.

The effectiveness of various indigenous materials in controlling potato tuber moth was also studied. Among 12 local plants, *Lantana camara* was the most effective in terms of lesser potato tubers damaged, lower number of live larvae, least number of holes and highest number of dead larvae.

In addition, nine botanical materials were evaluated for the control of sweetpotato weevil in storage. Dried tobacco and dengaw leaves were found to be the most effective in controlling the pest.

5. Postharvest

The vasselife of two varieties of roses was observed after these were soaked in surfactants (dishwashing liquid, Teepol, bathroom

disinfectant). Teneke roses soaked up to the neck level registered very good visual quality.

The effects of Gibberelic acid and Paclobutrazol treatment on the vase life of roses were also studied.

In addition, rose growers, specifically in barangay Bahong, La Trinidad, Benguet benefited when they adopted the following technologies introduced by BSU: use of appropriate size of styrofoam boxes in packaging roses, sleeving of roses with polyethylene materials right at the farm, sorting of roses according to length and bud stage, and corsage making.

Farming Systems

The University has continued with its study on market-oriented cropping schemes for vegetable crops which revealed that two factors affecting profitability of vegetable production is vegetable supply and price.

Under the study on intercropping and covercropping of coffee under pine-based agroforestry scheme, hedgerow, and vegetative terracing in agroforest areas; results show that coffee grown under the chayote covercrop/intercrop gave the highest marketable yield followed by coffee with passion fruit.

Appropriate crop rotation schemes against bacterial wilt were also studied. A 50% reduction in bacterial wilt population was obtained in plots planted with corn after potato.

Other studies include revitalizing intensively-cropped soils for organic farming of vegetables, and hedgerow buffering with *Alnus japonica* as soil conservation technique in citrus-based farming system.

Socio-Economics and Product Development

A database on agro-socio-economics and biophysical information of Benguet Province is

now available. The database on agro-socio-economics includes crop area, and disposal for various crops; whereas the database on bio-physical resources include soils, slope characteristics, current land use, agro-climatic condition and others.

A handbook on credit sources for potato farmers in Benguet and Mountain Province was also produced.

Studies on gender and development were also undertaken to integrate gender concerns in the work and financial plans of BSU. The study was also undertaken to evaluate the roles of men and women in the University in order to identify gender-based barriers to development.



*Dr. Rogelio D. Colting, VP for Research and Extension visits the citrus production area at Ampasit Agroforestry prior to the introduction of hedgerow buffering with *alnus japonica* as soil conservation technique in citrus based farming systems.*



Covercropping of coffee under pine-based Agroforestry scheme.

EXTENSION



BSU experts explaining the diagnosis of citrus specimen in one of the outreach activities at Barangay Tabaan Sur, Tuba, Benguet.

The Agri-School-On-the Air

Radio is the most common channel of information used by rural households in the Cordilleras. Thus, the Agri-School-on-the-Air program was launched two years ago and was sustained during the year in review.

Except Sundays, the Agri-School-on-the-Air is aired daily over radio station DZWT from 5:15 to 5:30 a.m. where listeners get first-hand information about mature technologies from technology generators or agricultural experts of BSU and DA-CAR, the principal sponsors of this program and the Mountain Province Broadcasting Corporation.



BSU sa Barangay forum at Poblacion, Itogon, Benguet.

Training and Outreach

The training and outreach program of the University caters to the specific needs of the clientele in- and off-campus. With relevance and timeliness as guideposts, a prioritized and coordinated one-year extension program was drawn up by the ODE in coordination with the different colleges, centers and institutes of the University. Requests of clientele for specific training, including co-sponsoring of such with other agencies were also accommodated.

At least 130 training on various areas of discipline were conducted for farmers, entrepreneurs, administrators, LGU officials and employees, students, technicians, returning OFWs, teachers and women's groups.

In the academic sector, different trainings were designed for students/teachers of three SCUs, two private colleges, nine High Schools and two elementary schools. Most of the training were conducted by the ODE in cooperation with the different colleges or individually done by the colleges. The number of trainings conducted separately by the various colleges are summarized in Table 14.

Table 14. Number of trainings separately conducted by the different colleges

COLLEGE	NO. OF TRAININGS	BENEFICIARIES
CA	2	rose growers, swine raisers and some farmers
CAS	2	Teachers
CEAT	1	Mankayan, Benguet residents
CF	1	Farmers' organizations
CHET	11	Students from other schools, barangay officials, faculty, housewives
CN	3	Teachers
CTE	8	Teachers, administrators, and students of adopted schools
CVM	1	Farmers

In order for the trainees to value and use the knowledge or skills that they derived from such training, the ODE required the participants to share in the costs of their trainings. This strategy enabled the ODE to expand and conduct more trainings to their clientele.

Other Outreach Programs

Following are various other outreach programs that the University has undertaken for the year under review:

College of Agriculture - Monitoring of Mite Pest Population in Local Rose Farms; Monitoring of Giant Earthworms in the Ifugao Rice Terraces; CA sa Barangay; Organization of Swine Raisers Association in Baguio-Benguet; Organization of Women's Federation in Tinongdan, Itogon, Benguet; Agroforestry Support Program for Empowering Communities Towards Self-reliance (ASPECTS), Community Agroforestry Support Initiatives (CAFSI), Adopt a Cooperative Program of Primary Cooperatives in the Locality.

College of Arts and Sciences - Information Campaigns on Cordillera Autonomy, VFA, Globalization, Drug Abuse and Cordillera History; Adoption of a New High School, Madaymen National High School.

College of Engineering and Applied Technology - Biogas Production in Local Piggeries; Installation of at least 5 Mini-hydros in different parts of the Cordillera.

College of Forestry - Continuing Information and Education Campaign for Environ-

mental Awareness and Forest Protection for Out-of-School-Youth; Community-based Forest Management Program in Mankayan, Benguet; ASPECTS.

College of Home Economics and Technology - Barangay Integrated Development Approach for Nutrition Improvement (BIDANI); Skills Application Training (SAT) and Student Outreach Program (SOP).

College of Nursing - Provision of Basic Health Services and Reproductive Health Care Services to Selected Barangays and other clients.

College of Teacher Education - Adoption of Kapangan National High School and Kibungan National High School.

College of Veterinary Medicine - Piglet Dispersal Program in Kapangan, Benguet, (where each faculty member contributed one weaner to be reimbursed later); Vaccination Against Hog Cholera and Rabies in Dog; Artificial Insemination, ocular inspections and farm visitations.

Office of Student Affairs - Organization of the LTFI Kids' Mini-Olympics and La Trinidad Youth Congress, Project BAYANI.

Administration - TILAPIA (Towards In-Land Aquatic Propagation in Asin) Project - A joint rural community-based fishery project of BSU, Benguet Electric Company (BENECO) and the Northern Luzon Aquatic Marine Resources and Development-Zonal Center (NLAMRD-ZC) based at DMMMSU. About 15,000 fingerlings were distributed to 23 farmer-cooperators of the project located at barangays Nangalisan, Asin, and Tadiangan; Tuba, Benguet.



BELIEVE IT OR NOT. This tilapia fish measuring almost a-foot was grown by one of the farmer-cooperators of the Towards In-Land Aquatic Propagation in Asin (TILAPIA) Project.

Technology Packaging and Publication

The different units continued to develop and disseminate information, education and communication materials that highlighted the various research outputs of the University.

These were classified as Manuals/Teaching Guides; Technical Pamphlets or Brochures/Leaflets; Journal Publications; Popular Articles (numerous articles – published in local, regional and national publications) and Textbook/Handbook. Table 15 shows the number of information materials published by the different colleges and offices of the University including:

a. Introduction to Nursing Management Functions: A Proposed Handbook for Student Nurses by Cawaon, F. 1998;

b. Strawberry Processing for Small Scale Industries by Avila, J. K. 1998.

Table 15. Number of information materials published by the different Colleges

COLLEGE	BOOKS	PAMPHLETS/ BROCHURES	JOURNALS	MANUALS	OTHERS
CA		17		6	28
CAS				12	
CEAT					
CF				1	1
CHET	1			2	2
CN	1		1		1
CTE				8	2
CVM					
OSA					1
ODE				12	



Vegetable production and food processing are among the packaged and published technologies.

PRODUCTION

The University Business Affairs Office



The KONTIAD performing a native dance number with La Trinidad Mayor Nestor B. Fongwan (with cap) during the opening day of the BSU Marketing Center.

The income generation program of the University got a shot in the arm with the establishment of the BSU Marketing Center. The center serves as outlet of the BSU food processing center, poultry products, other farm produce from the University and other food items. It is now routinely patronized by the University employees and other outsiders as well. It is turning out to have a great potential for generating income thus, it is expected to tremendously boost the University's income in the years to come.

Without additional pays and wages, some academic personnel with business acumen were given designation as project managers of the IGPs of the University. Other managers were University staff assigned on a full-time basis and were supported by casuals and contractual laborers.

The University Business Program is composed of two categories, the auxiliary services (Fund 163) and the agricultural projects (Fund 161). Based on their report, a total net income of P5,151,932.62 was realized from the University's income-generating projects

Fund 161:



POULTRY PROJECT. From January to November, a net income of P325,148.50 was realized from this project.

As shown in Table 16, the different projects yielded a total net income of P1,743,805.42. Among the highest income earners were the Food Processing Center, Bakery, Multi-Vegetable, Poultry and Agroforestry. For the year, the Food Processing Center and Bakery realized a 20.27% and 12.24% increase in income respectively, as compared to the previous operation.

Fund 163:

The operation of the auxiliary projects realized a total net income of P1,293,351.40.

The various administration projects yielded an amount of P325,450 or 25.46% lower from the previous year's income (Table 16). The decrease were due to the withdrawal of lessee's whose stall were transferred to an area which turned out to be inappropriate. Another is the management turn-over at the Swamp area.

Under the land use program of the University, like the "sariling sikap," farmer cooperators and supervised farming generated an income of P1,789,25.80 for the cropping year 1997-1998, Table 17.

Collections from land use is expected to increase in the ensuing years due to the increase in land rentals.

Table 16. Summary of income generated from projects

Project	Period	Gross Receipt	Direct Expenses	Net Income
Fund 161				
1. Processing	Jan-Dec.1998	P3,461,545.80	P2,760,050.07	P701,495.73
2. Bakery	Jan-Dec.1998	2,410,361.85	2,044,052.97	366,308.88
3. Poultry	Jan-Nov.1998	1,689,768.88	1,384,620.38	305,148.50
4. Swine	Jan.-Nov.1998	318,564.00	294,287.12	24,276.88
5. Multi-Vegetable	Sept.'97-Apr'98	649,952.00	502,572.00	143,380.00
6. Strawberry	Jul'97-May'98	668,115.00	576,060.00	92,055.00
7. Agroforestry	Jan-Dec.1998	208,357.50	67,330.26	141,027.24
8. Pomology	Nov. 1998	28,200.00	14,484.76	13,715.24
9. Marketing Center	Sept.-Dec.1998	626,625.44	0	62,622.54
10. Floriculture	Nov. 1998	20,285.00	6,684.17	13,823.00
11. Orchid	Nov. 1998	5,400.00	0	5,400.00
12. Cattle/Dairy		8,146.58	144,050.00	-135,903.42
13. Mushroom		17,100.00	6,684.17	10,415.83
Total		10,112,422.05	7,800,653.73	1,651,802.97
Fund 163				
1. Cafeteria	Jan.-Dec. 1998	5,533,091.00	4,992,862.06	540,229.76
2. High School Canteen	Jan.-Dec. 1998	671,964.70	578,186.66	93,781.87
3. Engineering Canteen	Jan.-Dec. 1998	718,031.93	659,160.96	58,870.00
4. Guestel/Home Mgmt/ Exec.House	Jan.-Dec. 1998	481,130.00	172,420.41	276,829.59
5. CHET Showcase	Jan.-Dec. 1998	229,562.75	146,908.32	82,654.43
6. Veterinary Clinic	Jan.-Dec. 1998	30,385.75	0	30,385.75
7. Ladies Dorm	Jan.-Dec. 1998	210,600.00	0	210,600.00
Total		7,874,766.13	6,549,538.41	1,293,351.4
II. Administration Projects				
1. Summer Variety Stall	June'97-May-98	277,000.00	0	277,000.00
2. Agri-Stalls- Strawberry	July'97-June'98	32,600.00	0	32,600.00
3. Vegetables	July'97-June'98	15,850.00	0	15,850.00
Total		P325,450.00		P325,450.00

Table 17. Summary of income generated from land use

Land Use	Area	Rate	Amount
1. Sariling Sikap	90,193.32	6.00	P541,159.95
2. Farmer Cooperators	90,431.91	6.00	542,591.46
3. Supervised Farming-College	43,806.13	6.00	262,836.78
4. Supervised Farming-High School	73,789.60	6.00	442,737.61
Total	298,220.96		P1,789,325.8

Source: Business Affairs Office

FINANCE

The University could not have accomplished anything without financial resources. The financial resources of the University come from the National Government, Operating Income and some funding from outside sources as a result of linkages with other agencies.

For the Calendar Year 1998, the University had a total budget of P167,783,834.51 as shown in Table 18. This allotment came from the National Government (P158,617,788.01) and a part was generated by the University out of its operations (P9,166,046.50). Out of the total allotment, the university had obligated the amount of P151,122,077.87 having a balance of P16,661,756.64. This balance shall be treated as a

continuing appropriation for the University to be used in the following calendar year.

The Operating income earned by the University which was recorded under the Special Trust Fund Account (RA 8292), was used to augment the allotment received from the National

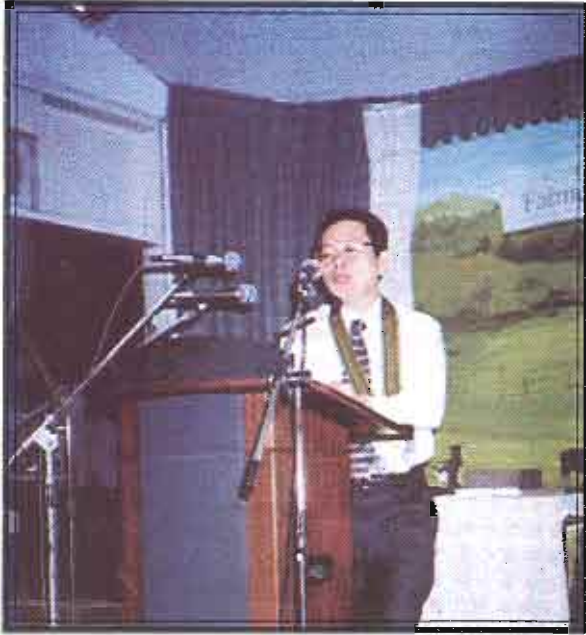
Government. Moreover, a revolving fund of P1.9 million was set-up to finance the operations of Income Generating Projects of the University.

The funding for outside funded projects are reported by the Colleges/Institutes concerned.

Table 18. Statement of allotment, obligations and balances, calendar year 1998

Particular	Allotment	Obligations	Balances
Current Year's Allotment			
Personal Services	109,664,310.00	109,664,310.00	
Maintenance and Other Operating Expenses	25,010,500.00	20,634,650.93	4,375,849.07
Capital Outlay	18,000,000.00	7,771,573.16	10,228,426.84
Sub-total	152,674,810.00	138,070,534.09	14,604,275.91
Prior Year's Allotment			
Personal Services			
Maintenance and Other Operating Expenses	642,093.76		642,093.76
Capital Outlay	5,300,884.25	4,838,280.62	462,603.63
Sub-total	158,617,788.01	4,838,280.62	1,104,697.39
Total Allotment	158,617,788.01	142,908,814.71	15,708,973.30
Operating Income (Special Trust Fund)	9,166,046.50	8,213,263.16	952,783.34
Total Operating Income	9,166,046.50	8,213,263.16	952,783.34
Total Funds	167,783,834.51	151,122,077.87	16,661,756.64

PICTORIALS



Dir. Eliseo R. Ponce of the Bureau of Agricultural Research delivering his message during a Farmers' Forum.



Dr. Franco T. Bawang (standing), Executive Vice President and Dr. Rogelio D. Colting, Vice President for Research and Extension (right most), take turns in briefing foreign visitors of the University.



Pres. Cipriano C. Consolacion leads the ground breaking ceremony for the construction of a BSU Technology Packaging Center and fusion of Land Bank, La Trinidad Branch under a Build - Operate - Transfer Scheme.



Some University Officials discuss concerns of the University outside of their respective offices.



"Kampai." Yoshiyasu Nukutane a JICA Volunteer enjoys a toast with President Cipriano C. Consolacion during his pre-departure to Japan.



President Cipriano C. Consolacion (center) handing a plaque of appreciation to Hon. Elisio R. Ponce of the Bureau of Agricultural Research (BAR) during a Farmer's Forum. Looking on is Dr. Franco T. Bawang, University Executive VP.



Mrs. Fongwan and Mrs. Consolacion cut the ribbon during the opening of the BSU Marketing Center last August 1998.



With the guidance of faculty members, students, as young as they are, learn to perform singspiration during special activities and other programs of the University.



Azolla Technology. Due to the success of this project the University is now disseminating and transferring the acquired technologies in the Cordillera.



Mayor Mauricio G. Domogan of the City of Baguio delivering his message during the culmination program of the nutrition month. The CHET served as the host College.



Some of the foreign nationals who paid visits, worked for diplomacy and forged linkages with the University.





Young as they are, students learn to appreciate what they do and are trained early to face the challenges along instruction research extension and production.



Trainors and Trainees meet to discuss the pros and cons of cutflower production



Plaque of Recognition, Appreciation and several medals are all set for distribution to deserving BSU officials, faculty, students and guests for excelling in Instruction, Research, Extension and Production



Interface: TILAPIA project, cutting of ribbon, poster contest winner, blessing of infrastructure projects

LIST OF LINKAGES WITH OUTSIDE AGENCIES / ORGANIZATIONS

International

1. AED-US Aid for International Development (USAID)
2. Asian Development Bank
3. Belgian Assistance for Development and Cooperation
4. Canadian International Development Agency, Philippine Office
5. Food and Agriculture Organization, Philippine Office
6. HELP-SCOTLAND – University of Edinburgh, Scotland
7. IDP – Australia, Philippine Office
8. International Potato Center
9. International Rice Research Institute
10. Israel Embassy
11. Japan International Cooperation Agency
12. Korea International Cooperation Agency
13. Sangju National Polytechnic University, South Korea
14. Tokyo University of Agriculture
15. University of Ghent, Belgium
16. University of Hongkong

National/ Local

A. Line Agencies

1. Department of Agriculture Cordillera Administrative Region (DA-CAR)
2. DA- Bureau of Agricultural Research
3. DA- Bureau of Plant Industry
4. DA- Bureau of Post Harvest Research and Extension
5. DA- Bureau of Soils and Water Management
6. DA- Philippine Rice Research Institute
7. Department of Education, Culture and Sports (DECS)
8. Department of Energy (DOE)
9. Department of Environment and Natural Resources (DENR)
10. Department of Health (DOH – CAR)
11. Department of Science and Technology-Cordillera Administrative Region (DOST-CAR)
12. DOST-Philippine Council for Advanced Science and Technology Research and Development

13. DOST-Philippine Council for Agriculture, Forestry Natural Resources Research and Development
14. DOST-Philippine Council for Aquatic and Marine Resources Research and Development
15. DOST-Philippine Textile Research Institute
16. DOST-Technology Application and Promotion Institute
17. Department of Social Welfare and Development (DSWD – CAR)
18. Department of Trade and Industry (DTI)
19. National Economic and Development Authority (NEDA)
20. National Irrigation Administration (NIA-CAR)
21. Philippine Information Agency (PIA-CAR)
22. Technical Education and Skills Development Authority (TESDA – CAR)
23. Northern Luzon Aquatic and Marine Resources and Development Zonal Center

B. Academe

23. Cavite State University (formerly DSAC)
24. Central Luzon State University – ANEC
25. Dingle Agricultural and Technology College (DATEC)
26. Don Mariano Marcos Memorial State University (DMMMMSU)
27. Isabela State University- ANEC
28. Misamis Oriental State College of Agriculture and Technology (MOSCAT)
29. Philippine Association of State Universities and Colleges
30. Philippine Military Academy
31. University of the Philippines, Baguio – Cordillera Studies Center
32. University of the Philippines, Diliman – Center for Women's studies
33. University of the Philippines at Los Baños (UPLB)- College of Agriculture
34. UPLB - College of Engineering and Agricultural Technology, UPLB
35. UPLB - College of Forestry
36. UPLB – Institute of Agroforestry
37. UPLB - Institute of Plant Breeding
38. UPLB – National Center for Policy Development
39. UPLB - National Institute of Molecular Biology and Biotechnology, (BIOTECH-UPLB)
40. UPLB - Postharvest Horticulture Training

and Research Center-UPLB

41. Visayas State College of Agriculture (ViSCA)

C. Other Agencies

42. Baguio National Crop Research and Development Center (BNCRDC)

43. Barangay Banangan Upland Farmers Assoc.

44. Cordillera Executive Board

45. Davao National Crop Research and Development Center

46. Earthquake Rehabilitation Program

47. Episcopal Diocese of Northern Philippines

48. Farmers (Province of Benguet, La Trinidad Municipality)

49. Funding Assistance for Private Education (FAPE)

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

51. Ifugao Terraces Commission

52. Land Bank of the Philippines

53. Local Government Unit (LGU) - Sablan

54. LGU - San Jose City

55. National Nutrition Council

56. NDAP - CAR

57. Pilipinas Shell Foundation

58. Philippine Association for Graduate Education

59. Philippine Institute for Development Studies

60. Philippine National Red Cross (PNRC)

61. Philippine Rural Reconstruction Movement - Ifugao

62. Philippine Veterans Bank

63. Provincial Nutrition Council

64. Regional Training Program for Food and Nutrition Planning

65. Sentro para iti Agtutubo, Panagdur-as, Kultura ken Aglawlaw

66. Southern Mindanao Agriculture and Resources Research and Development Consortium (SMARRDEC), Davao City

68. Upland Development Institute

5. Philippine Social Science Council

6. PLAN International - Baguio City

7. Sky Rise Hotel

8. St. Luke's Hospital, Quezon City

Private Organizations

1. Copper Kettle

2. Country Club, Baguio City

3. King Louis Flowers and Plants, Inc.

4. Mountain Province Broadcasting Corporation, DZWT

Appendix 1. List of faculty and student awards

NAME OF AWARDEE	TITLE OF AWARD	LEVEL	DATE AWARDED	AWARDING AGENCY/ ORGANIZATION
College Of Agriculture				
Unit Award	3 rd Place, Category B (Small) Float contest Baguio Flower Festival '98	Local	Feb. 21, 1998	City of Baguio
Unit Award	3 rd place, 4 th National Agricultural Science Quiz Contest	National	Feb. 25, 1998	UP Phytopathological Society-UP Agricultural Society-UPLB
Faculty				
BALAKI, Edwin T.	Centennial Lingkod Bayan Awardee.	National	1998	Civil Service Commission
CARDONA, Eulogio	Outstanding Research Team Award on IPM for Cruciferous Pests Achievement Award in Technology on IPM for Cruciferous Pest	National	March 6, 1998	UPLB
		National	April 22, 1998	UPLB
ESTOLAS, Wilfredo	Best Poster Competition 4 th National Social Science Congress, 1st Place	National	July 9, 1998	NAST
LUIS, Janet S.	First place, Best Paper Competition R and D Highlights Symposium	Regional	Sept. 4, 1998	HARRDEC PCARRD
MERESTELA, Tessie	Best Paper Competition Regional R and D Symposium, 3 rd Prize Outstanding NAAP Subcenter Project Leader	Regional	Sept. 4, 1998	HARRDEC
		National	Dec. 4, 1998	
Students				
MANUEL, Roy BUMACAS, Cecille BAHUL, Modesto CADANGEN, Meynard	3 rd and 4 th place National Agricultural Science Quiz	National	July 9, 1998	NAST
College Of Arts and Sciences				
Faculty				
BALCITA, Manuel JOSUE, Jose POLILEN, Ricky CUANGUEY, Luisa	Best Poster Presentation Regional Symposium on R and D	Regional	September 1998	HARRDEC
GUITELEN, Edith	Gawad ng Pagkilala	National	Aug. 27, 1998	Komisyon ng Wika
Student				
DUQUE, Verna	Impromptu Speech Category (Champion)	Local	November, 1998	YMCA, Baguio City
College Of Home Economics and Technology				
Faculty				
BANANIA, Norma	Community-based Trainor	Regional	August 28, 1998	TESDA-CAR

Appendix 1. (Continuation)

NAME OF AWARDEE	TITLE OF AWARD	LEVEL	DATE AWARDED	AWARDING AGENCY/ ORGANIZATION
Students				
CABUTAJE, Leticia	Cum Laude	Local	March 27, 1998	BSU
CULBONG, Drake	Outstanding Student Leader	Local	March 13, 1998	BSU
GIBSON, Terrilyn	Fifth place, General Information and Current Events of the Interschool Academic Meet	Regional	Jan. 30, 1998	CHED
LIMOS, Villa Marie	Miss CARTESA '98	Regional	Feb. 25, 1998	CARTESA
College Of Nursing				
Student				
LADILAD, Maru Luis	Cum Laude/ TOSP-CAR Awardee	Local/ Regional	March, 1998	BSU/ CHED-CAR
College Of Veterinary Medicine				
Student				
DAW-AS, Abdon	8 th placer in the DVM Board Exam	National	August, 1998	PRC
College Of Teacher Education				
Faculty				
CUNTIG, Judith	2 nd Placer – Licensure Examination for Teachers	National	November 18, 1998	PRC
Students				
AROMIN, Zebra	3 rd Place – Vocal Solo	Regional	January 30, 1998	CHED-CAR
BENTRES, Lolita	1 st place – General Information and Current Events	Regional	January 30, 1998	CHED-CAR
CABURIAN, Jemuel				
BENTRES, Lolita	Finalist- Ten Outstanding Students of the Philippines	Regional	May 30, 1998	CHED, SLU, Baguio City
BOCALAN, Ariston	Striker Award (Soccer)	Local	November 14, 1998	Baguio Soccer Club
CADIAS, Abel	1 st Place – Extemporaneous Speech (Filipino)	Regional	Jan.30, 1998	CHED-CAR
CTE Softball Women Team	5 th Place- Over-all	National	April 19-25, 1998	Palarong Pambansa '98
MANUEL, Josephine	1 st Place – Essay Writing (English)	Regional	January 30, 1998	CHED-CAR
	1 st Place – Extemporaneous Speech (English)	Regional	January 30, 1998	CHED-CAR
MARTES, Cristabel	Bronze Medalist (400-m Low Hurdles)	National	April 19-25, 1998	Palarong Pambansa '98
SISON, Fe	Second Place – Essay Writing (Filipino)	Regional	January 30, 1998	CHED-CAR
Secondary Laboratory School				
	1 st Place – school paper Mountain Breeze	Division	September 24, 1998	DECS, Benguet
	4 th Place – Overall Bracket B- English	Regional	October 8, 1998	DECS-CAR
BONNA, Mae Doris	2 nd Place – Editorial Writing	Division	September 24, 1998	DECS- Benguet

Appendix 1. (Continuation)

NAME OF AWARDEE	TITLE OF AWARD	LEVEL	DATE AWARDED	AWARDING AGENCY/ ORGANIZATION
DEL MORAL, Francisco	3 rd Place – Ten Outstanding Young Researchers	Regional	January 8, 1998	DECS, DOST
DONTOGAN, Crislena, CONSOLACION, Cipriano Jr., LUIS, Benjamin	1st Place – Energy Quiz	Division	August 7, 1998	Dept. of Energy and Solar Lab.
ESCOLANO, Richard	8 th place – sports writing	Division	September 24, 1998	DECS- Benguet
LAOANGAN, Mauna	3 rd Place – Feature Writing	Division	September 24, 1998	DECS- Benguet
LUIS, Benjamin	1st Place – Oration	Local Regional National	March 19, 1998 March 31, 1998 April 23, 1998	Rotary Club Rotary Club Rotary Club
PARAN, Kenneth	2nd Place – Cartooning 4 th Place Cartooning	Division	September 24, 1998	DECS- Benguet
Elementary Laboratory School	8 th Placer-Filipino School Paper 1st Place Development communication Page – Bracket A 2 nd place Lay-outing 4 th Place –Science Page 4 th place – Sports page 4 th place-overall standing 6 th place editorial page 3 rd place – Elementary provincial Athletic Meet	Division Regional Provincial	Sept. 24, 1998 October 9, 1999 Dec. 12, 1998	DECS, Benguet DECS-CAR DECS-CAR
BUASEN, Aprille	2 nd Place – Copy Reading and Headline Writing	Division	September 24, 1998	DECS-Division
GANO, Lee	1st Place – Sports Writing	Division	September 24, 1998	DECS-Division
PAD-AY, Jovelyn	1st Place-Editorial Writing(Filipino)	Division	September 24, 1998	DECS-Division
PAD-AY, Jovelyn	4 th Place-Editorial Writing	Division	September 24, 1998	DECS-Division

Appendix 2. List of Scholars/trainees/faculty on sabbatical leave

	NAME	COLLEGE/ OFFICE	DEGREE	FIELD OF SPECIALIZATION	UNIVERSITY	PERIOD OF STUDY	DURA TION	SPONSOR	REMARKS	DATE OF RETURN
	DOCTOR'S DEGREE				University of Western Sydney, Australia					
1	ABEN, Silvestre K.	CTE/HS	Ph. D.	Horticulture		Feb 1995 - Feb 1999 Mar-August 1999	4 yr. 6 mos	Australian Sponsored Training Scholarships (ASTAS) Program		1999 Sept
2	ATINYAO, Mariene B.	CA	Ph. D.	Animal Science	UPLB	June 1995 - Oct 1998 Nov 1998 - May 1999	3 yrs 1 sem	BSU Faculty Staff Development	1st Extn	1999 Jun
3	BUCU, Gilda S.	NPRRTC	Ph. D.	Rural Development	BSU	Nov 1997 - Oct 2000	3 yrs	BSU (full tuition)		2000 Nov
4	BULACSO, Aurora F.	CA	Ph. D.	Crop Protection	UPLB	Jun 1997 - May 2000	3 yr.	FAPE		2000 Jun
5	CORPUZ, Aileen M.	CAS	Ph. D.	Biochemistry	UPLB	Nov 1997 - Oct 2000	3 yrs			2000 Nov
6	DATI, Johnny G.	NPRRTC	Ph. D.	Horticulture	UPLB	June 1998 - May 2001	3 years	CIP		2001 Jun
7	DOMONDON, Denisa L.	CAS	Ph. D.	Applied Biological Sciences	University of Ghent, Belgium	Oct 1998 - Sept 2001	3 yrs	Joint Japan World Bank Graduate Scholarship Program	1 yr leave w/o pay	2001 Oct
8	GOMEZ, Romeo A. Jr.	CAS	Ph. D.	Environmental Science	UP Los Baños	June 1998 - May 2001	3 yrs	BSU		2001 Jun
9						Nov 1995 - Apr 1996 June 1996 - Oct 1998 Nov 1998 - May 1999	1 sem 2 1/2 yrs 1 sem	BSU Faculty Staff Development	Ext w/ benefit	1999 Jun
10	LEE, Gloria R.	CAS	DPA	Public Administration	UP Diliman	Feb 1996 - Jan 1999 Feb 7 - July 6, 1999	6 mos	Belgian Adm for Dev't Cooperation(BADC)	w/ pay, 1st extn	1999 July 7
11	LIRIO, Lorenza G.	CAS	Ph. D.	Applied Biological Sciences	University of Ghent, Belgium			Australian Agency for International Development		2001 Aug
12	LUBRICA, Joel V.	CAS	Ph. D.	Science Education	New England, New South Wales	Jan 1997 - July 2001	55 mos			2001 Jun
13	MALAMUG, John James	CEAT	Ph. D.	Agricultural Engineering	CLSU	June 1998 - May 2001	3 years			1999 Jun
14	MILO, Victoria C.	CA	Ph. D.	Horticulture	CLSU	June 1996 - May 1999	3 yr	CHED-FAPE		
15	MULA, Rosana P.	CA	Ph. D.	Household Economics and Management	Wageningen Agricultural University, The Netherlands	Mar 1995 - Feb 1999 March 1 - June 15, 1999	3 5 mos	Netherlands Foundation for the Advancement for Tropical Research (WOTRO)	w/ pay, 1st extn	1999 Jun 16
16	OTCULAN, Antonio B.	Research	Ph. D.	Horticulture	BSU	Nov 1997 - Oct 2000	3 yr	BSU (full tuition)		2000 Nov
17	RAMOS, Charito A.	CAS	Ph. D.	Crop Science	New England New South Wales	June 1995 - April 2000	5 yr	Australian Sponsored Training Scholarships (ASTAS) Program		2000 Jul

Appendix 2. (Continuation)

NAME	COLLEGE/ OFFICE	DEGREE	FIELD OF SPECIALIZATION	UNIVERSITY	PERIOD OF STUDY	DURA TION	SPONSOR	REMARKS	DATE OF RETURN
18 SALDA, Violeta B.	NPRRTC	Ph. D.	Agronomy	University of Hongkong	Jun 1995 - Jun 29 1998 July 1998 - Dec 1998 Jan 1999 - March 1999	3 mos.	UH Graduate Assistantship	1st Extn 2nd exln	1999 Apr
19 TACLOY, John C.	CF	Ph. D.	Rural Development	BSU	Nov 1997 - Oct 1999	2yr & 2 sum			1999 Nov
20 TAD-AWAN, Bernard S.	CA	Ph. D.	Plant Pathology	Adelaiide University	Nov 1998 - June 2000	1 5 yrs	AusAid	LOA (1 sem)	2000 Jul
MASTER'S DEGREE									
1 ARANCA, Reynaldo A.	CN	MD	Medicine	Virgen Milagrosa	June 1997 - May 1999	2 yr.			1999 Jun
3 BELINO, Pelin B.	CHET	MS	Nutrition	UPLB	June 1997 - May 1999 Jun 1999-Oct 1999	2 yr. 1 sem	CHED College Faculty Development Program	1st Extn	1999 Nov
4 NATIVIDAD, Doris S.	CN	MA	Education	BCF	June 1998 - May 1999 Jun 1999-Aug 27, 1999	1 yr 3 mos		1st Extn	1999 Sept
5 ROSARIO, Moses S.	CAS	MS	Computer Science	De La Salle University	June 1998 - Oct 1998 Oct 16, 1998-May 2000	1 sem 1.5 yrs		w/o pay w/ pay	2000 Jun
6 SALCEDO, Prescila G.	CF	MS	Environmental Science	UPLB	Oct 29, 1998-Oct 2000	2 yrs			2000 Nov
7 TIANZA, Guerzon A.	CA	MS	Agronomy	BSU	Nov 1997 - Oct 1998 Nov 1998 - May 1999	1 yr. 1 sem		1st Extn	1999 Jun
8 VILLA, Imelda E.	CTE	MA	Home Economics	BSU	Nov 1998 - Oct 1999	1 yr			1999 Nov
BACHELOR'S DEGREE									
1 ANDAYA, Montano B.	Adm	BSA	Soil Science	BSU	June 1998 - May 1999	1 yr	CSC-LSP-BDC	Bachelor's degree completion	1999 Jun
Non-Degree Programs									
1 CLARAVALL, Nora J.	CTE		Diploma in Computer Science	UPLB Open University	Apr 1998 - Mar 1999 Apr 1-30, 1999	1 yr 1 mo		1 mo extn	1999 May
2 LARUAN, Kenneth A.	CF		Post Graduate Diploma Course in Agroforestry	UPLB	June 1998-May 1999	1 yr	ASPECTS		1999 Jun
3 MACANES, Valentino A.	CA		Post Graduate Diploma Course in Agroforestry	UPLB	June 1998-May 1999	1 yr	ASPECTS		1999 Jun

Appendix 2. (Continuation)

	NAME	COLLEGE/ OFFICE	DEGREE	FIELD OF SPECIALIZATION	UNIVERSITY	PERIOD OF STUDY	DURA TION	SPONSOR	REMARKS	DATE OF RETURN
	SABBATICAL LEAVE			PURPOSE OF SABBATICAL LEAVE						
1	LUMA-ANG, Carlos P.	CTE	To write a book entitled "Earth Science the Practical Way"			Nov 1998-Oct 1999	1 yr.			1999 Nov

Appendix 3. International training/fellowship/conventions/seminars/ workshops attended by personnel

PERSONNEL	TITLE	SPONSOR	DURATION	VENUE
College Of Agriculture				
ANSELMO, Belinda	Research Fellowship on Genetic Diversity in Sweetpotato	Jacob Blaustein Graduate Program	October 1996-August, 1998	Israel
BAWANG, Franco CONSOLACION, Cipriano, CONSOLACION, Leticia	Observation on RD, Waste Management and Farming Systems in Tropical Countries	SNPU	May 27-30, 1998	SNPU, Korea
College of Arts and Sciences				
BATANI, Ruth S.	"Fourth International Congress on AIDS"	ASSERT	Oct. 21-23, 1998	BSU
	"Tenth International Congress on Rural Health," Paper Presented on "Life Cycle of Ichachackan Women"	DOH-SAC	Nov. 5-7, 1998	CCP, Manila
DOMONDON, Denisa	EENP 15 th National Conference	EENP	June 2-4, 1998	UNP, Vigan, Ilocos Sur
	Mycelia Tests for Mushroom Species on Phil. Organic Waste	Ghent University, Belgium	April 16, 1998 to May 15, 1998	Ghent University, Belgium
GOMEZ, Romeo A.	Intensive Japanese Course / Greenhouse Gas Emissions/ Observation	Chiba University, Japan	March 04, 1998 to April 1, 1998	Chiba, Japan
College of Veterinary Medicine				
AMATORIO, Marieta Q.	Epidemiological and Economic Investigation as a Basis for Animal Health Program	DSE	July 11, 1998 to August 5, 1998	Feldafing, W Germany
Institute of Physical Education and Sports				
LACONSAY, Eduardo	Teacher Training Program	Monbusho-Japanese Government	1996-1998	Tokyo, Japan Kofu City, Japan

Appendix 4a. List of completed researches for the year 1998

TITLE	RESEARCHER/S
NPRCRTC	
Assessment of Yield of Igorota as Influenced by Age of Seeds	Pacuz, L., Dalang, P. A. & Kiswa, C. G.
Effect of Distance of Planting on the Growth and Yield of Processing Potatoes	Bayogan, E. V., Perez, J. C., Botangen, E. T., & Fermin J. B
Effect of Phytosiological Factors on the Growth of Bacterial Wilt (<i>Ralstonia solanacearum</i>)	Perez, J. C. & Villena, P. M.
Effect of Stem Density on the Yield of Potato Using Rooted Cuttings	Dalang, P. A. & Pacuz, L.
Evaluation of Local Plant Extracts for the Control of Sweetpotato Weevil (<i>Cyclas formicarius</i> Fabr.)	Bidangen, S. & Perez, J. C.
Evaluation of Various Indigenous Materials to Control Potato Tubermoth in Storage	Perez, J. C., Abellera, R. K. & Dalang, A. M.
Improvement of Management Practices of G ₀ Seed Under Screenhouse Conditions	Backian, G. S., Dalang, P. A. & Kiswa, C. G.
On-farm Variety Trials of Processing Potato	Ganga, Z. N., Simongo, D. K. & Quindara, H. L
Regional Trial of Taro (<i>Colacasia esculenta</i>)	Gonzales, I. C.
Regional Trial on Sweetpotato	Gonzales, I. C. & Perez, J. C.
Screening of Sweetpotato Cultivars for Resistance to Sweetpotato Weevil (<i>Cyclas formicarius</i> Fabr)	Perez, J. C. & Mislav, J. C.
Screening of Sweetpotato Cultivars for Resistance to Sweetpotato Weevil (<i>Cyclas formicarius</i> Fabr.)	Perez, J. C. & Mislav, J. C.
Susceptibility of Potatoes to Skinning During Sweetpotato Promotional Trial in Aringay, La Union	Gonzales, I. C., Diccion, T. C. & Sim., J. M.
Transport and Their Subsequent Storability	Balog-as, F. S. & Dati, J. G.
Yield Appearance Quality at Harvest and Subsequent Storability in Ambient of In-ground Stored Potato Tubers	Bayogan, E. V. & Balog-as, F. S.
HORTI	
Biological Control of Potato Cyst Nematodes, Fusarium Wilt in Garden Pea and Club Root of Crucifers	Luciana, L. M. & Lirio, L. G.
Bioefficacy of Ascend for the Effective Control of Asparagus Pest	Cardona, E. V., Jr.
Crop Protection and Cultural Management Studies on Strawberry	Balaki, E. T.
Crop Protection Studies of Selected Highland Plantation Crops	Ligat, B. S.
Effect of Planting Density, Soil Moisture and Ammonium Nitrate on Cabbage	Alipit, P. B.
Evaluation of New Insecticide Compounds Against Resistant <i>Plutella xylostella</i> Associated with Cabbage	Ligat, B. S.
Field Evaluation of a New Compound for the Control of Late Blight of Potato and Tomato Using Organic and Foliar Fertilizer Studies	Ligat, J. S.

Appendix 4a. (Continuation)

TITLE	RESEARCHER/S
Field Evaluation of Coded Cyanamid Products Against Foliar Diseases of Strawberry	Milagrosa, S. P.
Garden Pea Integrated R & E Program	Toledo, P. E.
Highland Mushroom Research and Development	Luis, J. S.
Rapid Clonal Multiplication of High Quality Planting Stocks for Cutflower Growers in CAR	Gonzales, F. R. & Ladilad, A. G.
Rose Integrated Research and Development Program	Ladilad, A. G.
Vegetative Propagation of Selected Highland Crops Using Tissue Culture	Baícita, M. A. & Josue, J. J.
National Cooperative Test on Rice	Cadatal, M. D.
Rice Varietal Improvement	Cadatal, M. D.
Lentinula R & D	Luis, J. S.
Pleurotus R & D	Luis, J. S.
Field Evaluation of Agrispon, Agrolig, and Sincosin on the Growth and Yield of Cabbage and Potato	Milagrosa, S. P.

Appendix 4b. List of completed instructional researches

TITLE	RESEARCHER/S
COLLEGE OF AGRICULTURE	
Improvement of Post-Harvest Handling System for Perishable Crops in the Cordillera	Colting, L. M.
Management of Phytophagous Mites on Rosess	Colting, L. M., Tanyag, R. C., Ligat, B. S. & Basalong, A.
Evaluation of American Chemical Products Against Insect Pests of Cabbage	Ligat, B. S.
Organic Fertilizer Formulation	Balaoing, J. G.
Variety Trial of Highland Vegetables	Cadatal, M. D.
Organic Fertilizer Studies on Highland Vegetables	Balaoing, J. G.
Sheep Production and Development in the Highlands of Cordillera	Casiwan, D. Q., et. al.
Socio-Economic Studies in Highland Agricultural and Natural Resources	Debad, L. C. & Tagarino, D.D.
Effects of Pulvoric on the Performance of Broiler	Casiwan, D. Q.
Studies on Slaughter and Fabrication of Meat in Benguet	Maddul, S. B. & Luis, B. B.
Inventory of R & D Extension Activities Undertaken in BSU	Debad, L. C. & Extension Major Students
Participatory and On-station Research on Clubroot Disease	Tad-awan, B.S.
COLLEGE OF TEACHER EDUCATION	
Coping with Behavioral Problems of Grade VI Male Pupils	Aloo, Mildred
Aramag: Ibaloi Death Rituals	Celino, Sonia
Student's Knowledge & Attitude in the Practices of the Philosophy, Goals and Objectives of Teacher Education	Garin, D., Missi Pasi, T. & U. Colle Reves
Accreditation Effects to the Teaching Learning Process in the College of Teacher Education, BSU	Garin, D., Abastilla, A. & B. Lacaden
Attitudes of Faculty and Students Towards the Vision, Mission, Goal of the College of Teacher Education	Fernandez, P. & P. Lubrica
An Analysis of the Implementation Multigrade Demonstration School Project of Lebeng, Bokod and Pon, Tuba, Benguet	Garin, D., Celino, S. & J. Martin
Performance of Elementary Teachers in Their Classroom Teaching from 1996-1998	Paatan, M., Aromin, L. & P. Lubrica
Performance of Secondary Teachers in Their Classroom Teaching from 1996-1998	Macli-ing, R., Gamboa, I., Aquino, F. & E. Fianza
Teaching Performance of College Teachers from 1996-1998	Lubrica, P. & R. Bawang
Performance of CTE Graduates in Licensure Examination For Teachers from 1996-1998	Fianza, E. & P. Lubrica
COLLEGE OF HOME ECONOMICS AND TECHNOLOGY	
Assessment of the Salt Iodization Program in Benguet	Olati, L. P.
COLLEGE OF ARTS AND SCIENCES	
Isang Gabay sa Implementasyon ng Palising Baylingwal sa mga State Universities and Colleges sa CAR	Victor, F. C.
Prospects of Organic Farming in Increasing Food Production	Gomez, R. A., Jr.
Relationships between Physics Schedule and Achievement in Physics Problem Solving	Borje, JC. S. & B.B. Dolipas
Action Research on Mathematical Puzzle " Solutions to the Problems on the Tower of Hanoi"	Oryan, S.
COLLEGE OF VETERINARY MEDICINE	
Defining Problems and Opportunities for Smallholder Pig Production in the Philippines	CVM, BSU, VISCA & the University of Queensland, Australia

Appendix 4c. List of on-going BSU funded researches for the year 1998.

TITLE	RESEARCHER/S
Northern Philippines Root Crops Research and Training Center	
Appropriate Crop Rotation Scheme Against Bacterial Wilt	Backian, G. S. & Torres, H. B.
Biological Control of <i>Ralstonia solanaceum</i> Using Antagonistic Organisms	Diccion, T. C. & Perez, J. C.
Development of Camote-based Fruit Candied Products	Quindara, H., Botangen, E. & Mama-o, L.
Evaluation of Potatoes for Processing and Storage Qualities	Balog-as, F., Botangen, E., & Quindara, H.
Evaluation of Sweetpotato for Storage Qualities	Balog-as, F.
Fertilizer Study on Taro	Marquez, W. L., Diccion, T. C. & Gonzales, I. C.
Fungicidal Screening on Taro	Diccion, T. C.
Influence of Boron on the Postharvest Qualities of Processing Potatoes	Balog-as, F., Quindara, H. L., & Marquez, W. L.
Influence of NAA on the Storage and Processing Qualities of Potatoes	Balog-as, F., Quindara, H. L., & Mama-o, L.
Integrated Management of Late Blight of Potato (<i>Phytophthora infestans</i> Mont De Bary)	Perez, J. C. & Abellera, Z. K.
Preliminary Yield Trial	Ganga, Z. N., Simongo, D. K., Quindara, H. L. and Botengan, E. T.
Product Development on Potatoes	Quindara, H. L. & Botangen, E. T.
Root-crop Based Farm Demo on the Use of Organic Fertilizer	Marquez, W. L. & Diccion, T. C.
Sensitivity Test of <i>P. Infestans</i> to Metalaxyl	Perez, J. C., Diccion, T. C. & Estoro, F. P.
Shelf-life Evaluation of Sweetpotato Products	Botangen, E. T., Quindara, H. L. & Mama-o, L.
Taro Fertilizer Trial	Marquez, W. L., Diccion, T. C., Torres, H. B. and Gonzales, I. C.
Taro Under Shady Areas	Gonzales, I. C., Diccion, T. C. & Torres, H. B.
Horticultural Research	
Carrot Integrated R and D Program	Toledo, P. E.
Cordillera Indigenous Mycorrhizal Mushrooms R and D	Luis, J. S.
Development of Market Oriented Cropping Schemes for Vegetable Crop	Alipit, P. B.
Field Evaluation of EM Against Potato Late Blight and DBM on Cabbage	Milagrosa, S. P.
Integrated Pest Management (IPM) of Diamond back Moth in Crucifers and Related Vegetables in Benguet and Mt. Province	Cardona, E. V., Jr.
Tissue Culture R and D Program for Highland Crops	Alejandro, V. D.
Vegetable Seed Production Technology Development Program	Toledo, P. E.
Integrated Highland Farming System Approach	
Azolla Research and Development Project	Merestela, T. M.
Integrated Highland Farming Systems Research and Development Program	Colting, R. D.
Integration of Livestock Production in Agroforestry	Maddul, S. B.
Sheep Production and Development in the Highlands of the Cordillera	Casiwan, D. Q.
Study on Intercropping/Covercropping in Coffee-pine Based Agroforestation	Dimas, E. B.
Study on Vegetative Terracing in Agro-Forest Areas	Colting, R. D.
Ten Year Arabica Coffee Rehabilitation and Development in Benguet and Mt. Province	Dimas, B. B.
Integrated Highland Philippines Socio Economic Research and Development	
Establishing a Socio-economic Database and Local Network in the CAR	Tagarino, D. D., Batani, R. & Milagrosa, A. P. & Beligan, S.Z.
Gender and Development Project	Tagarino, D. D., Batani, R. & Milagrosa, A. P.

Appendix 4d. List of outside funded researches for the year 1998

TITLE	RESEARCHER/S	FUNDING AGENCY
NPRCRTC		
(Set A and Set B)	Simong O, D. K., Diccion, T. C., Quindara, H. L. & Torres, H. B.	(DOST)
Advance Yield Trials on Potato	Ganga, Z. N., Simongo, D. K., Diccion, T. C. & Baddl, E. O.	BSU-BAR
Bio-control of <i>P. Solanacearum</i> Using Antagonists	Diccion, T. C. & Perez, J. C.	IPDP, CIP, BSU
Effect of Seaweed Extract on the Development of Late Blight (<i>P. Infestans</i>) on Potato	Perez, J. C. & Hollman, J.	CIP
Evaluation of Lettuce Under La Trinidad, Benguet Condition Using Agritex Crop Protection Fabric	Tandang, Leoncia L.	Agricultural & Indus- trial Supplies Corporation (AISC)
Evaluation of Strawberry Production Under Tunnel Using Agritex Crop Protection Fabric	Padua, D. P. & Alupias, E. B.	AISC
On-farm Evaluation of Component Control Strategies Against Bacterial Wilt	Perez, J. C., Backian, G. S., Diccion, T. C. & Torres, H. B.	CIP
Replicated Trial	Badol, E. O. Ganga, Z. N., Simongo, D. K., & Diccion, T.	BSU-NAST
Sweetpotato NCT Trial	Gonzales, I. C. & Perez, J. C.	BSU-VISCA
HORTI		
Field Evaluation of Melody Duo 67WP for the Control of <i>Phytophthora infestans</i> in Potato	Villanueva, L. M	BAYER, Phils.
Bioefficacy of Snail Kill on Snail in Chinese Cabbage	Cardona, E. V., Jr	AgChem
Arthropod Pest Management in Chrysanthemum	Cardona, E. V., Jr.	PCARRD- DOST
Disease Management in Chrysanthemum	Cardona, E. V., Jr.	PCARRD- DOST
Evaluation and Mass Propagation in Chrysanthemum	Alejandro, V. D.	PCARRD- DOST
Field evaluation of Zuellig Products Against Foliar Disease of Highland Crops	Milagrosa, S. P.	AGROCHEM
IHPSSERD		
Synthesis of Indigenous, Commerciabile Emerging and Borrowed Technologies on Vegetable Production in Benguet and Mt. Province	Ganga, Z. N., Tagarino, D. D & Paday-os, J.	DA-CHARM. & HARRDEC
Validation of SAFDZs in the Poject Areas	Colting, R. D. & D. D. Tagarino	DA-CHARM

Appendix 4e. List of on-going instructional researches

TITLE	RESEARCHER/S
COLLEGE OF AGRICULTURE	
Effects of Pulvoric on the Performance of swine	Maddul, S. B. & Walsiyen, M. B.
Establishment of Demo Farm and Training on the Management of Honeybees for Pollination of Semi-temperate Crops	Colting, L. M.
Inventory of R & D Extension Activities that are On-going and Proposed by BSU	Debad, L. C. & Extension Major Students
COLLEGE OF TEACHER EDUCATION	
Achievement of First and Second Year Students in the General Education Curriculum from 1996-98	Dimas, C. B. & Lubrica, P. A.
Relevance of Teacher Education Curriculum	Dimas, C. B.
Stress Management of Student Teachers	Dimas, C. B., Angel, C. L. & Laruan, M. J.
COLLEGE OF FORESTRY	
NRMP II	CSC-BSU
Agroforestry Support Program for Empowering Communities Towards Self-reliance (ASPECTS) in Sustainable Development of the Uplands	Networking between workers/agencies
Sustainable Technology for Eastern Pangasinan (STEP) agencies	Networking between workers/agencies
COLLEGE OF HOME ECONOMICS AND TECHNOLOGY	
Monitoring of the LAKASS Project in Target Barangays of CAR	Garcia, R.T., Olatic, I. P. & Ma. E. Tabanda
DAT-BED Project	Banania, N. P.
COLLEGE OF ARTS AND SCIENCES	
Reading Preferences and Habits of BSU Freshmen Students	Bito, D. & D. Wandit
Data Banking	Beligan, S. Z.
Students Satisfaction on Academic Performance in Math, Physics, Statistics	MPS Faculty
Established Socio-Economic R & R Data Base and Local Network in the CAR (1998)	Beligan, S.Z. (Project Leader)
Inventory Checklist on BSU Student Problems	Taag, G. C.
COLLEGE OF ENGINEERING AND APPLIED TECHNOLOGY	
Benguet State University Affiliated Non-Conventional Energy Center (BSU-ANEC) for the Cordillera	
Comprehensive Irrigation R & D Umbrella Program (CIRDUP)	1 Project Coordinator, 3 CEAT Faculty and 3 Contractual Research Assistants
Five-year Irrigation Research and Development Program	
COLLEGE OF VETERINARY MEDICINE	
Isolation and Antibiotic Testing of Streptococci	Battad, C.S.

Appendix 5. List of infrastructure projects implemented in 1998

NAME OF PROJECT	AMOUNT	REMARKS
<i>A. Regular Capital Outlay</i>		
College of Nursing Phase V	P5,700,363.18	12% completed as of Dec. 10, 1998
College of Forestry Phase III	P2,175,069.80	100% completed as of Dec. 10, 1998
College of Forestry Phase IV	P1,715,400.00	Plans and design still in preparation
College of Arts and Sciences Phase II	P2,552,556.30	Phase II completed . Project fully paid July 25, 1997
College of Arts and Sciences - Phase III		Project bid/5% completed as of Dec. 10, 1998.
College of Arts and Sciences - Phase IV		Plans and designs completed Scheduled for bidding
Construction of Dormitory – Phase II	P965,897.48	100% completed as of Dec. 20, 1998
Repair of Guest house HARRDEC Phase I -	HARRDEC-materials BSU- labor	Materials delivered Labor 80% completed
<i>B. Construction by Administration</i>		
Warehouse	Expenses as of Dec. 1998 P1,219,505.21	Partially completed - no canopy - no electrical - no painting
Multi-purpose building	Expenses as of Dec. 1998 P576,561.47	40% completed no roof, no side no walls and windows
Gate 4	P97,230.95	Project completed 100%
Comfort room at main gate	P18,744.05	Project stopped 11.50% completed
Marketing Center and BOM office	P500,000.00	Completed

(Appendix 6)
CURRICULAR OFFERINGS

GRADUATE DEGREE PROGRAMS

DEGREE PROGRAMS	MAJOR FIELD OF SPECIALIZATION	DEGREE PROGRAMS	MAJOR FIELD OF SPECIALIZATION
Doctor of Philosophy (PhD)	Agricultural Education Horticulture Rural Development Language Education Science Education: (Biology, Mathematics)	Master of Arts in Education(MAEd) Master of Arts (MA)	Education Administration Elementary Education Guidance and Counseling Home Economics Physics Physical Education Social Studies Technology and Home Economics English as a Second Language Filipino as a Second Language Mathematics Chemistry General Science Applied Statistics Silviculture Watershed Management
Doctor of Education (EdD)	Educational Management	Master of Forestry (MF)	
Master of Science (MSc)	Agricultural Economics Agricultural Education Agronomy Animal Science Botany Biology Entomology Extension Education Horticulture Plant Pathology Rural Development Soil Science Forestry: Silviculture, Watershed Management	Master of Resource System Management(MRSM) Master in Public Administration (MPA)	Agribusiness Public Administration

UNDERGRADUATE DEGREE PROGRAMS

DEGREE PROGRAMS	DEGREE PROGRAMS
Bachelor of Science in Agriculture Major in : Agronomy Agricultural Economics Animal Science Extension Education Horticulture Sericulture	Bachelor of Science in Nursing (BSN) Bachelor of Science in Nutrition and Dietetics (BSND) Bachelor in Elementary Education (BEE) Bachelor of Science in Secondary Education (BSE) Major in : Biology English Filipino Guidance and Counseling Library Science Mathematics Physical Education, Health and Music (PEHM) Physics Social Studies Values Education
Bachelor of Science in Agroforestry Entomology Horticulture Plant Pathology Soil Science	Doctor of Veterinary Medicine (DVM)
Bachelor of Science in Agribusiness(BSAB) Bachelor of Science in Agricultural Education (BSAE) Bachelor of Science in Agr'L. Engineering BSAEng'g) Bachelor of Science in Applied Statistics (BSAS) Bachelor of Science in Animal Technology (BSAT) Bachelor of Science in Environmental Science (BSES) Bachelor of Science in Forestry (BSF) Bachelor of Science in Home Economics (BSHE)	

Diploma Course
 Diploma in Agroforestry

Post-Secondary Courses

Certificate in Home Management Arts (CHMA)	Certificate in Basic Automotive Technology
Certificate in Physical Education (CPE)	Certificate in Advanced Automotive Technology

Non-Formal Education

Tailoring Course	Dressmaking	Food Processing	Baking Course
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Open University Courses

(Appendix 7)
ADMINISTRATIVE COUNCIL

CIPRIANO C. CONSOLACION, PhD.
President and Chairman

FRANCO T. BAWANG SR., PhD.
Executive Vice President and Vice Chairman

MARCOS A. BULIYAT, EdD.
Vice President for Academic Affairs

ROGELIO D. COLTING, PhD.
Vice President for Research and Extension

MEMBERS

1. ANGIWAN, Matias C. Jr., Legal Officer
2. AQUINO, Estella U., President, Non-Teaching Association
3. AQUINO, Francisco R., Director, Institute of Physical Education and Sports
4. ARCISO, Theodore E., Director, Institute of Public Administration
5. AVILA, Jane K., Dean, College of Home Economics and Technology
6. BAGANO, Juliet P., Coordinator, Open University
7. BALAKI, Edwin T., Director, Extension Services
8. BALWEG, Bienvenido M., Director, Media and Publications
9. BASCO, Mabel E., Chief, Internal Audit Services
10. BENGWAYAN, Grace T., University and Board Secretary
11. BUSTAMANTE, Anselmo F., ROTC Commandant
12. CALORA, Feliciano G. Jr., Dean, College of Forestry
13. CAWAON, Florence C., Dean, College of Nursing
14. CELINO, Sonia M., Chairperson, Elementary Education Training Department
15. CHUA, Edna A., Director of Admissions
16. CLARAVALL, Nora J., Director, University of Library Services
17. COTIW-AN, Basito S., Dean, College of Veterinary Medicine
18. DANGWA, Olga C., Special Assistant for Community Affairs
19. DAYOTAO, Ariel, President, Supreme Student Council
20. DEMOT, Juliet D., Chief, Property and Supply Management Office
21. DIMAS, Albert B., President, Faculty Club
22. DIMAS, Benjamin B., Director, Institute of Highland Farming Systems and Agroforestry
23. ESTEBAN, Emilia M., Chief, Human Resource Management Office
24. FORMARAN, Villa L., Chief, Medical Services
25. GANGA, Zenaida N., Director, HARRDEC
26. GARIN, Dominador S., Dean, College of Teacher Education
27. GRANDE, Wagner F., Information Officer
28. GUALDO, Rosendo S., Dean, College of Arts and Sciences
29. LAPICTO, Eladio O., Director, General Services
30. LIMPIN, Oscar B., Chief, Cashiering Office
31. LIMPIN, Victoria L., Chief, Records Management Office
32. LUMA-ANG, Carlos P., Chair, Secondary Education Training Department
33. MADDUL, Sonwright B., Dean, College of Agriculture
34. MALAMUG, John James F., Dean, College of Engineering and Applied Technology
35. MANUEL, Josephine B., Editor-In-Chief, Mt. Collegian
36. MINA, Wilfredo B., Director, Student Affairs
37. NARAG, Sherelyn A., Resident Auditor (COA)
38. PADUA, Danilo P., Director, Planning and Development
39. PEREZ, Jocelyn C., Director, Northern Philippine Rootcrops Research and Training Center
40. RAMOS, Estrella A., Chief, General Administrative Division
41. RAPUSO, Mary Joy S., Chief, Accounting Office
42. SOLIMEN, Julia A., Dean Graduate School
43. TAGARINO, Darlyn D., Director, IHPHISERD
44. TANDANG, Leoncia L., Director, Research Services
45. VICTOR, Priscilla P., Chief, Budget Office
46. VILLANUEVA, Luciana M., Director, Horticulture Research and Training Institute

Prepared by : **DR. DANILO P. PADUA**
 Director, Planning and Development

MR. WAGNER ' BOBBY' F. GRANDE
 Information Officer II

MS. ERLINDA B. ALUPIAS
 Assistant Professor III (Educational Research Assistant)

ATTY. JOY ANGELICA P. SANTOS-DOCTOR
 Supervising Research Science Specialist (Substitute)

MS. JOY L. VIERNES
 Student Assistant

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 Colleges and Institutes



The people behind the compilation of the 1998 Annual Report: (Left to right) Linda, Bobby, Joy , Dr. Padua and Joya (not in the picture).

A million THANKS to all those who, in one way or the other helped in the publication of this year's annual report.