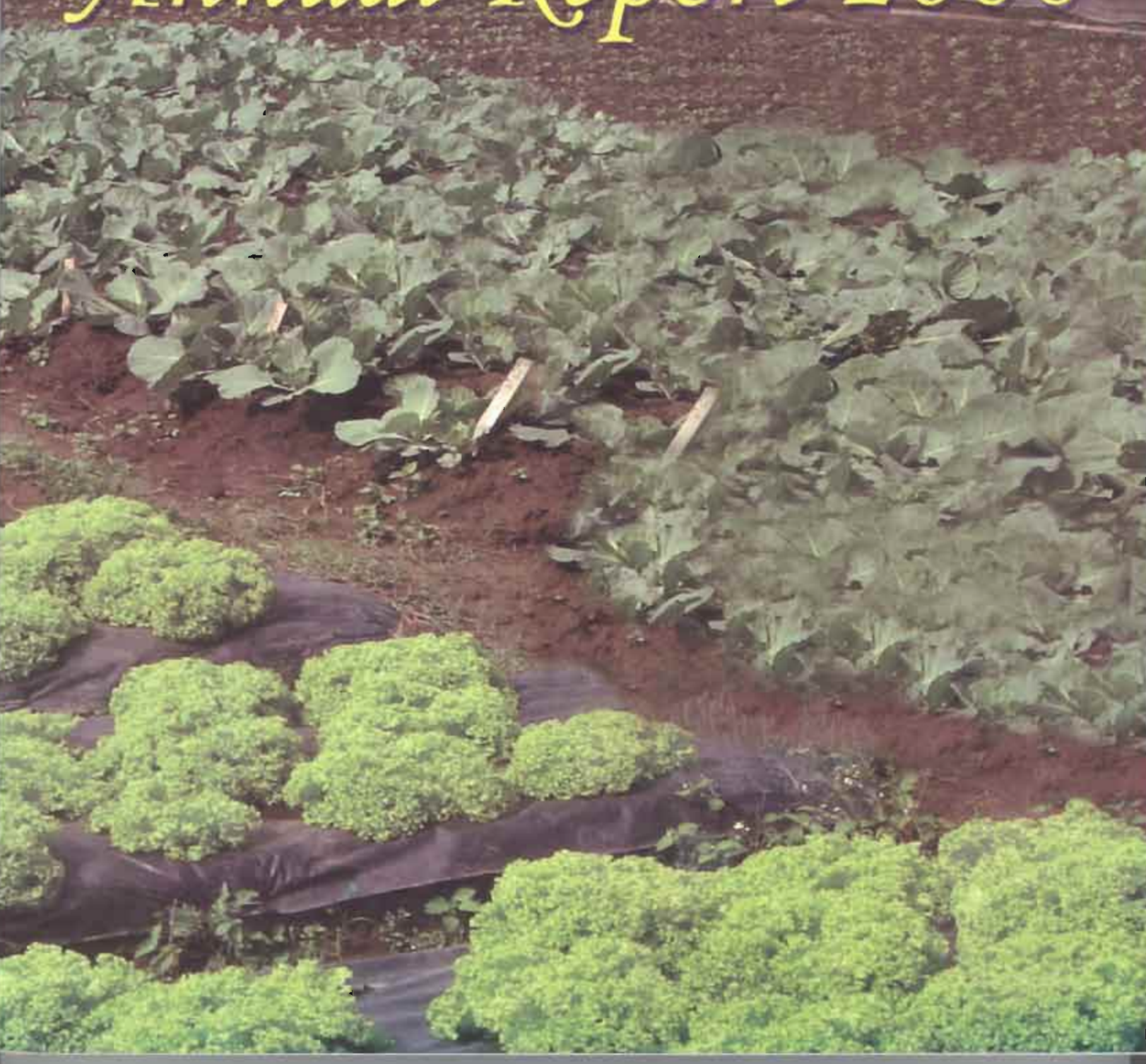




Benguet State University

Annual Report 2006



The cover is a photograph of the greenhouse for organic vegetable production and the open field which is the thesis area of students planted with cabbage, coral leaf and Romaine lettuce that were applied with compost tea.



Republic of the Philippines
BENGUET STATE UNIVERSITY
La Trinidad, 2601 Benguet
www.bsu.edu.ph

February 26, 2007

HER EXCELLENCY GLORIA MACAPAGAL-ARROYO
President, Republic of the Philippines
Malacañan Palace, Manila.

Thru: HON. CARLITO S. PUNO
Chair, Commission on Higher Education
and Chair, BSU Board of Regents (2006)

Madam President:

Respectfully submitting herewith the 2006 Annual Report of Benguet State University. The report summarizes the University's accomplishments in the four functions: Instruction, Research, Extension and Production. Accomplishments in governance and general administration are presented in the last chapter.

The year 2006 was productive for the University and the country as well. Thank you for your support.

Very truly yours,

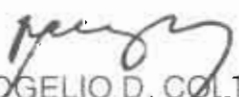

ROGELIO D. COLTING
President

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EXECUTIVE SUMMARY

The thrust of Benguet State University during the calendar year 2006 was guided progressively by the vision of being a premier state University in Southeast Asia. The University started the year with a successful celebration of its 20th University Charter Day in January, then its 90th Foundation Day in June and culminated with the survey visit of the Accrediting Agency of Chartered Colleges & Universities in the Philippines towards the end of the year. Achievements in the four-fold functions of instruction, research, extension, and production were made possible through improved governance.

In instruction, the University continued to upgrade degree and non-degree programs towards the end of the year. BS Applied Statistics program was granted Level III status; it is the first science program that was awarded with this status among SUC's in the country by the AACUP. The Doctor of Veterinary Medicine, BS Nursing and BS Agriculture programs were also evaluated and had qualified for Level III status. The College of Agriculture maintained its status as Center of Excellence in Agriculture Education based on the evaluation made by the Technical Panel in Agriculture Education (TPAE). Students also excelled in their academic performances as well as in various inter-agency sports and writing competitions. Scholarship grants sponsored by BSU, other government agencies, private, local, foreign agencies increased. Upgrading, acquisition and repairs of University facilities and equipment were also done.

In Research and Extension, the University has generated a lot of technologies/information from its completed and continuing researches in the areas of agriculture, social sciences, and education. The successful implementation of the University's research and extension programs has been greatly enhanced through institutional linkages with local and international institutions.

On the other hand, the production endeavor of the University had a substantial increase in income from its Income Generating Projects compared to last year. The funds generated were used to augment the University budget from the government.

The successful implementation of the four-fold function was made possible by effective and efficient University governance. The Board of Regents was fully supportive to the University President in making critical decisions particularly on academic program, Income Generating Projects and infrastructures. Human resource development was fully supported: 20 faculty and staff members completed their doctorate and Masters degrees; other continued to pursue graduate degrees, and, a great number attained additional knowledge and skills enhancements in relevant trainings, conferences, seminars, study visits and workshops, in and outside of the country. There were also several faculty awards given to deserving faculty members for their outstanding performances. Strategic decisions were made to further enhance the administrative support services to instruction, research, extension and production.

Instruction



Graduation Ceremony April 2006



Above are ND Students preparing Modified Diets in their Nutrition Therapy Class

Student Activities



Ms. Fennilyn Gonzales was awarded as Miss Talent during the Hotel, Restaurant and Tourism Weekend sponsored by Hotel and Restaurant Association of Baguio.



CHET participants won 2nd, 3rd and 4th Places in Dance Sports during the 2006 University Intramurals



CHED Orientation (above) and conduct of Job Fairs (left) was done with BSU graduates and graduating students. Forestry students (below) actively participated in the establishment of nursery in Kapangan as part of their practicum.



Instruction

The University has eight (8) colleges, two (2) institutes, two (2) external campuses, Open University, and a Graduate School. It offers 18 undergraduate degree programs with 35 major fields, 42 graduate degree programs (8 PhD and 34 MS/MA), five (5) diploma courses, and three (3) certificate courses. It has one ladderized course, the Bachelor of Science in Entrepreneurial Technology. The University also provides an Intensive English Language Training Course (IELC) thru its International Language Center (ILC).

In recognition of the strong leadership and exemplary performance of the University vis-à-vis other universities in the country that offer BS Agriculture, CHED continued to recognize the College of Agriculture as Center of Excellence (COE) in Agriculture Education since 2002. In addition, the Accrediting Agency of Chartered Colleges and Universities in the Philippines (AACUP) granted Level III to majority of the undergraduate degree programs. Among the programs, the BS in Applied Statistics was adjudged as the only Science program in the country with Level III status. The Outreach Publications Pty, Ltd. in Australia also accredited BSU as Provider for Accelerated English Program (EAP) and Short Course in Literacy and Language Skills (SCILLS).

In the year 2006, enrollment in the three campuses reached as high as 10,000 and the graduates over 2,000. Ensuring quality education, there were 318 faculty members: 155 instructors, 67 assistant professors, 57 associate professors, 38 professors, and 1 college professor. Of these, 85 (27%) had PhD, 130 (41%) had MS/MA degrees and 103 (32%) had AB/BS degrees. Twenty (20) completed within the year their higher degrees: 3 with PhD and 17 with MS/MA, while 15 were awarded faculty grants to pursue their degree: 7 for PhD, 7 for MS/MA, 1 for Diploma, and 3 for postdoctoral research fellows.

DEGREE PROGRAMS

Curricular Programs

The University offers 18 undergraduate degree programs with 36 major fields, 41 graduate degree programs, four (4) diploma courses, and two (2) certificate courses (Table 1). The consortium with the Governor Bado Dangwa Agro-Industrial School (GBDAIS) in teacher education (Bachelor in Elementary Education and Bachelor in Secondary Education) ended with the last batch graduating during the first semester 2006-2007. The consortium with Saint Louis University and University of the Cordilleras in Baguio City is offering Master of Science in Mountain Engineering is continuing.

Curricular Revisions/Development

In order to meet the needs of professional teachers for the secondary/elementary and special education in the Philippines, the Board of Regents (BOR) approved the implementation of the revised curriculum on Bachelor in Secondary Education and Bachelor in Elementary Education as prescribed by CHED in CMO 30 S. 2004. Enhancement was made in the PhD Language Education and MS in Forestry with the inclusion of new subjects. On the other hand, the Buguias Campus started offering a new degree program, the Bachelor in Agricultural Technology (BAT) effective SY 2006-2007. Other revisions were made to standardize course codes for effective e-enrollment system (Table 2).

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Table 1. List of curricular programs offered in Benguet State University

<p>COLLEGE OF AGRICULTURE BS Agriculture BS Agribusiness Management BS Development Communication Diploma in Agroforestry</p>	<p>GRADUATE SCHOOL PhD in Agricultural Education PhD in Agronomy PhD in Educational Management PhD in Horticulture PhD in Language Education PhD in Rural Development PhD in Science Education (Biology)</p>
<p>COLLEGE OF ARTS AND SCIENCES BS Applied Statistics BS Environmental Science BS Information Technology</p>	<p>Master of Science in Agricultural Economics Agronomy Animal Science Biology Entomology Horticulture Plant Pathology Rural Development Soil Science</p>
<p>COLLEGE OF ENGINEERING AND APPLIED TECHNOLOGY BS Agricultural Engineering Certificate in Automotive Technology</p>	<p>Master of Arts in Applied Statistics Chemistry English as a Second Language Filipino General Science Mathematics, Physics Social Science</p>
<p>COLLEGE OF FORESTRY BS Forestry major Forest Ranger Certificate</p>	<p>Master of Arts in Education Master of Arts in Mountain Engineering Master of Arts in Home Economics Master of Arts in Physical Education Master in Resource System Management Master in Public Administration</p>
<p>COLLEGE OF HOME ECONOMICS AND TECHNOLOGY BS Home Economics BS Nutrition and Dietetics BS Entrepreneurial Technology (ladderized)</p>	<p>OPEN UNIVERSITY Master in Community Development Master in Cooperative Management Master in Development Communication Master in Human Resource Development Master in Non-Formal Education Master in Urban Management Diploma in Training Management Diploma in Urban Management</p>
<p>COLLEGE OF NURSING BS Nursing</p>	<p>INSTITUTE OF PHYSICAL EDUCATION AND SPORTS Diploma in Physical Education</p>
<p>COLLEGE OF TEACHER EDUCATION Bachelor in Elementary Education Bachelor in Secondary Education BS Agricultural Education Secondary Education (as laboratory school) Elementary Education (as laboratory school) Kindergarten (as laboratory school) Nursery (as laboratory school)</p>	<p>INSTITUTE OF PUBLIC ADMINISTRATION Diploma in Public Administration Certificate in Public Administration</p>
<p>COLLEGE OF VETERINARY MEDICINE Doctor of Veterinary Medicine</p>	<p>GOV. BADO DANGWA AGRO-INDUSTRIAL SCHOOL (Consortium) Bachelor in Elementary Education Bachelor in Secondary Education</p>
<p>BOKOD CAMPUS BS Industrial education BS Industrial Technology Bachelor in Elementary Education Two-Year Trade Technical Course Secondary Education (as laboratory school)</p>	<p>INTERNATIONAL LANGUAGE CENTER One-month Intensive English Language Course</p>
<p>BUGUIAS CAMPUS PhD Educational Management MA Education Professional Education Bachelor in Elementary Education Bachelor in Secondary Education BS Agricultural Education Bachelor in Agricultural Technology Secondary Education (as laboratory school)</p>	<p>OTHER SHORT COURSES Animal/Crop Production, Mushroom Production, Cut flower Production, Tissue Culture and others as requested</p>

Table 2. Curricular revisions or development in the various degree programs

COLLEGE/ NSTITUTE	CURRICULUM/ PROGRAM	ACTIVITIES
College of Agriculture	BS Agriculture	BSU is a member of the Technical Panel on Agriculture Education (TPAE) to study the Minimum Standard for BS Agriculture.
College of Arts and Sciences	AB English	Proposed degree program, under review by College Committee
	BS Information Technology	Addition of new and relevant subjects.
	AB Social Science	Proposed degree program, under review by College Committee
College of Home Economics and Technology	BS Nutrition and Dietetics	Reviewed by College Committee.
College of Teacher Education	B Elementary Education B Secondary Education	Implemented the revised Policies and Standards for Teacher Education Curriculum as per CHED Memo No. 30, s. 2004.
	B Secondary Education	Resumed the offering of Values Education as field of specialization effective 2 nd Semester 2006-2007.
	BS Agr'l Education	Under review by College Committee.
	BS Library and Information Science	Draft proposal prepared by College Committee.
Graduate School	PhD Language Education	Inclusion of two (2) foreign languages, (6) units, as per CHED Memo No. 36. Implemented 1 st Semester 2006-2007 with the offering of Nihonggo.
	MA English as a Second Language	Enhancement of course content of some major and minor subjects and revision of course codes. Implemented 1 st Semester 2006-2007
	MA Social Studies	Enhancement of course content and revision of course code. Implemented 1 st Semester 2006-2007
	MS Forestry	Inclusion of Geographical Information System as a subject; implemented during the 1 st Semester 2006-2007
	MS Biology	Reviewed by College Committee.
	MA Chemistry	Reviewed by College Committee.
Open University	Ladderized Courses	Review in progress by University Committee.
Buguias Campus	Bachelor Agriculture Technology (BAT)	Implemented SY2006-2007.

CHED Center of Excellence and Level of Accreditation

The College of Agriculture maintained its status since 2002 as Center of Excellence in Agriculture Education with an aggregate funding of PhP6 million. To increase the number of COE's in the University, the College of Teacher Education applied for Center of Development while the College of Nursing and the College of Veterinary Medicine are preparing for their application.

In terms of the accreditation of degree programs, the BS Applied Statistics was re-accredited to level III by AACUP. It is the first program in the sciences in the country that is given level III. The Doctor of Veterinary Medicine, BS Nursing, and BS Agriculture program were qualified to level III status while BS Forestry was re-accredited to Level II (Table 3). The other degree programs are preparing for assessment for Level III.

Table 3. Level of accreditation of degree programs as of December 2006

PROGRAM BY COLLEGE/ UNIT	LEVEL	VALIDITY/REMARKS
BS Agriculture	Qualified for Level III	Dec. 2006 to December 2007
BS Agribusiness Management	Assessment for Level III	Jan. 2007 to Jan. 2008; revisit
BS Agricultural Education	Assessment for Level III	Jan. 2007 to Jan. 2008;revisit
BS Agricultural Engineering	Level II	Jan. 2002 to July 2004
BS Applied Statistics	Level III	Jan. 2007 to Dec. 2010
BS Development Communication	Assessment for Level III	Jan. 2007 to Jan. 2008; revisit
BS Forestry	Level II Re-accredited	Dec. 2006 to Dec 2010
BS Home Economics	Level II Re-accredited	March 2001 to March 2006
BS Nutrition and Dietetics	Level II Re-accredited	March 2001 to March 2006
BS Nursing	Level III	Dec. 2006 to Dec. 2007
B Elementary Education	Assessment for Level III	Jan. 2007 to Jan. 2008; revisit
B Secondary Education	Assessment for Level III	Jan. 2007 to Jan. 2008;revisit
Doctor of Veterinary Medicine	Level III	Dec. 2006 to Dec. 2007
Master of Science (Agriculture)	Level II Re-accredited	Dec. 2000 to Dec. 2005
Master in Resource Management	Level II Re-accredited	Dec. 2000 to Dec. 2005
MA Education	Candidate	Feb. 2003 to Jan. 2005
PhD Horticulture	Level II Re-accredited	Dec. 2000 to Dec. 2005
PhD Rural Development	Level II Re-accredited	Dec. 2000 to Dec. 2005
PhD Agricultural Education	Candidate	Feb. 2003 to Jan. 2005
PhD Education		

ENROLMENT AND GRADUATION TRENDS

Enrolment

The total enrollment in the University is more or less stable ranging from 9,000 to 10,000 every fiscal year. About 9,000 of which enroll in the main campus and 600 to 700 in the external campuses (Table 4). For school year 2006-2007, the highest number of enrolled students was in the BS Secondary Education (1,139) followed by BS Agriculture (1,114) and BS Elementary Education (851).

Nineteen (19) foreign students enrolled either in the graduate or undergraduate programs coming from six (6) different countries like: South Korea, Libya, China, Nepal, Ghana, and Japan. Majority of these students came from South Korea. Five (5) are enrolled in the PhD, three (3) in the masteral and the rest in the undergraduate programs. Another 55 Korean students enrolled in the English Language Course.

Graduates

A total of 2,100 students graduated in year 2006, which is more or less similar in the past five years (Table 5). Of which, 1,739 are graduates from the main campus and the rest are graduates from the Bokod (168) and Buguias(169) Campuses. Meanwhile, the graduates at the GBDAIS (24) are the last batch of students covered by the consortium agreement with the University. In the graduate school programs, 13 finished their PhD degrees and 122 completed their master's degree, while 19 completed their master's degree under the Open University program. The 2006 graduation exercises were graced by CHED Commissioner, Hon. Carlito S. Puno, the chair of the University Board of Regents; and Prof. Dr. Dirk De Waele from Belgium, Promoter of PIUC-SLU-BSU Program, who served as speakers during the commencement exercises.

Table 4. Number of students enrolled by college and by degree program for FY2006

COURSE	2 ND SEM 2005-2006	SUMMER 2006	1st SEM 2006-2007
Graduate School			
PhD/ EdD	79	31	71
Masteral	438	286	406
Sub-total	517	317	477
Open University	69	7	66
College of Veterinary Medicine			
Doctor of Veterinary Medicine	431	11	409
College of Engineering and Applied Technology			
BS Agricultural Engineering	417	140	377
Certificate in Automotive Mechanics	35	0	50
Sub-total	452	140	427
College of Agriculture			
BS Agriculture	1053	183	1114
BS Agribusiness Management	191	45	295
BS Development Communication	155	57	147
Diploma in Agroforestry	61	21	78
Special Students	3	0	1
Sub-total	1,463	306	1,635
College of Arts and Sciences			
BS Applied Statistics	154	23	120
BS Environmental Science	259	52	159
BS Information Technology	261	46	269
Special Students	9	0	3
Sub-total	683	121	551
College of Forestry			
BS Forestry	220	38	158
Forest Ranger Certificate (on moratorium)	1	0	0
Sub-total	221	38	158
College of Home Economics and Technology			
BS Home Economics	350	45	368
BS Nutrition & Dietetics	169	39	163
BS Entrepreneurial Technology	127	37	132
Sub-total	646	121	663
College of Teacher Education			
B Elementary Education	851	130	704
B Secondary Education	1219	182	1139
BS Agricultural Education	108	18	69
Professional Education	59	0	49
Secondary	554	0	528
Elementary	616	0	557
Pre-School	218	0	245
Sub-total	3,625	330	3,291
College of Nursing			
BS Nursing	466	113	507
Institute of Physical Education and Sports			
Diploma in Physical Education	5	0	5
Institute of Public Administration			
Diploma in Public Administration	0	0	0
Certificate in Public Administration	0	0	0
Cross-Enrollees	68	0	5
Total Main Campus	8,646	1,504	8,194

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Table 4. Number of students enrolled by college cont'd...

COURSE	2 ND SEM 2005-2006	SUMMER 2006	1 ST SEM 2006-2007
Bokod Campus			
BS Industrial Education	101	0	92
BS Industrial Technology	99	0	77
B Elementary Education	66	0	34
Two-Year Trade Technology	42	0	74
Secondary	454	0	452
Total Bokod Campus	762	0	729
Buguias Campus			
PhD Educational Management (Consortium)	0	0	8
MA Education (Consortium)	0	0	28
B Elementary Education	60	0	42
B Secondary Education	87	0	57
BS Ag. Education	20	0	15
BS Industrial Education	22	0	9
B Agricultural Technology	11	0	8
General Curriculum	0	0	72
Professional Education	1	0	0
Secondary	513	0	508
Total Buguias Campus	714	0	747
GBDAIS (Consortium)			
BS Elementary Education	28	0	24
BS Secondary Education	5	0	3
Total GBDAIS	33	0	27
GRAND TOTAL	10,155	1,504	9,697

Table 5. Number of graduates by college and by degree program for FY 2006

COURSE	2 ND SEM 2005-2006	SUMMER 2006	1 ST SEM 2006-2007	TOTAL
Graduate School				
PhD/ EdD	7	2	4	13
Masteral	34	17	71	122
Sub-total	41	19	75	135
Open University	18	0	1	19
College of Veterinary Medicine				
Doctor of Veterinary Medicine	28	0	0	28
College of Engineering and Applied Technology				
BS Agricultural Engineering	11	4	1	16
Certificate in Auto-Mechanics	36	0	0	36
Sub-total	47	4	1	51
College of Agriculture				
BS Agriculture	129	2	12	143
BS Agribusiness	35	0	4	39
BS Development Communication	16	0	0	16
Diploma in Agroforestry	17	3	2	22
Sub-total	197	5	18	220
College of Arts and Sciences				
BS Applied Statistics	19	0	0	19
BS Environmental Science	26	10	0	36
BS Information Technology	10	1	0	11
Sub-total	54	11	0	65

Table 5. Number of graduates by college....(continued)

COURSE	2nd SEM 2005-2006	SUMMER 2006	1st SEM 2006-2007	TOTAL
College of Forestry				
BS Forestry	28	0	9	37
Forest Ranger Certificate	1	0	1	2
Sub-total	29	0	10	39
College of Home Economics and Technology				
BS Home Economics	66	0	1	67
BS Nutrition & Dietetics	23	0	0	23
BS Entrepreneurial Technology	14	1	0	15
Associate in Entrepreneurial Technology	27	0	0	27
Sub-total	117	1	1	119
College of Teacher Education				
B Elementary Education	159	0	16	175
B Secondary Education	183	0	11	194
BS Agricultural Education	35	0	5	40
Secondary	183	0	0	183
Elementary	160	0	0	160
Pre-School	218	0	0	218
Sub-total	938	0	32	970
College of Nursing				
BS Nursing	90	0	0	90
Institute of Physical Education and Sports				
Diploma in Physical Education	0	2	1	3
Institute of Public Administration				
Diploma in Public Administration	0	0	0	0
Certificate in Public Administration	0	0	0	0
Sub-total	0	0	0	0
Total Main Campus	1,558	42	143	1,739
Bokod-Campus				
BS Industrial Education	10	0	0	10
BS Industrial Technology	25	0	0	25
BS Elementary Education	30	0	0	30
Two-Year Trade Technical	2	0	0	2
Secondary	101	0	0	101
Total Bokod Campus	168	0	0	168
Buguias Campus				
B Elementary Education	6	0	0	6
B Secondary Education	14	0	0	14
BS Agricultural Education	3	0	0	3
BS Industrial Education	1	0	0	1
Secondary	145	0	0	145
Total Buguias Campus	169	0	0	169
GBDAIS (Consortium)				
B Elementary Education	0	0	22	22
B Secondary Education	0	0	4	4
Total GBDAIS	0	0	24	24
GRAND TOTAL	1,895	42	169	2,100

SCHOLASTIC PERFORMANCE OF STUDENTS

Honor Students

There was an increase of 50% in the number of graduating honor students for SY 2006-2007 as compared with the previous school year (2005-2006). There were 18 cum laude graduates in SY2005-2006 while in SY2006-2007 there were 35; one of them is magna cum laude while the rest were cum laude with one (1) graduate from the Bokod Campus. More than 50% of the honor students in both school years are from the College of Teacher Education.

Student Performance in Professional Licensure Examinations

BSU graduates performed well in the professional board examinations by surpassing the national passing rate for Veterinarians (40%), Librarians (50%), Teachers: elementary (60%), secondary (56%), HELE (53.57%), HE (50%), and Nurses (82% & 79%) (Table 6).

To further improve the passing rate, the University instituted a review on the course offering and instruction methods including review sessions for board examinations, and pursued intensive faculty development program. The college concerned also held recognition rites to the new board passers.

Table 6. Performance of graduates in professional licensure examinations

PROFESSION	NUMBER OF EX-AMINEES	NUMBER OF PASSERS	BSU PASSING RATE (%)	NATIONAL PASSING RATE (%)
Agriculturists	129	29	22.48	29.00
Ag. Engineering	15	2	13.33	44.04
Veterinarians	35	16	40	37.88
Librarians	16	8	50	36.73
Teachers:				
Elementary	245	147	60	29.23
Secondary	352	198	56	32.44
HELE	28	15	53.57	29.23
HE	22	11	50	32.44
Nutritionists-Dietetics	29	8	28	52.24
Foresters	45	13	29	41.00
Nurses				
June	93	53	82	49.10
December	34	28	79	49.00

Student Awards

BSU students continued to excel in various competitions conducted locally, regional and national level. For instance, in the CHED-CAR sponsored journalism contest, BSU students garnered first places in news writing, opinion writing, editorial writing, feature writing and in photo-journalism categories.

Students who excelled in their major field were awarded as Outstanding Horticulturist, Entomologist, and Veterinarian. Outstanding undergraduate thesis was also given award, while in the graduate level, the Board of Regents approved monetary awards to the Best Thesis Manuscript.

STUDENT WELFARE/SERVICES

The University pursued to provide quality services with the implementation of its "Student First" policy. One way was to increase the number of scholarship grants and financial assistance coming from the University to enable youths even from the remotest barangays in Benguet and other provinces in the Cordillera with potential capabilities to pursue their studies. Such policy also resulted in the garnering of various awards by the students in external competitions up to the national level.

Scholarship Grants and Financial Assistance

For the school year 2006-2007, there were 533 students who were granted scholarship and financial assistance by the University. Of which, 253 were academic achievers, four (4) of them were granted university scholarship (full free tuition) while the rest who were in the dean's list were given college scholarship (half-free tuition). Others are non-academic scholars (Table 7).

Table 7. Number of students who were granted scholarships for SY 2006-2007

TYPE OF SCHOLARSHIPS/FINANCIAL ASSISTANCE	SY 2005-2006	SY 2006-2007
BSU Scholarships/Financial Assistance	484	533
Academic Scholars (continuing students with GWA of 1.75 or better)	223	253
Entrance Scholars (in-coming freshmen who are valedictorian and salutatorian)	42	44
Non-Academic Scholars (Dependents, Athletes, Members of Student Organizations, etc.)	101	126
Student Assistantship	88	80
SPES	30	30
Other Government Scholarships (SAFE/STUFAP, CEAP, NISGP, SEGEAP, SSP, etc)	298	302
Private Sponsored Scholarships (ZONTA, PARRFI, IGO-ISP, Alumni, etc)	78	67
GRAND TOTAL	860	902

Intra/Extra-Curricular Activities

All the Colleges sponsored College Week/month long activities to encourage students to develop their capabilities in their own field of interests such as the IT Week, Environmental Week, Buwan ng Wika, Nutrition Month, and Forestry Week. Students were given opportunities to join competitions, exhibits, fora, and conferences. They were also allowed to conduct outreach programs in depressed barangays in the region and Lakbay-aral to other places in the country.

Student Exchange Program

The Student Exchange Program of the University expanded not only locally but in other countries as well. As a result, the College of Agriculture was able to send six (6) BS Agriculture students to Israel for a six-months on-the-job training, a program coordinated by CHED Manila. Within the region, the different colleges renewed or had new networking arrangements with various agencies. This includes the Department of Education (DepEd) as laboratory schools or outreach areas for the practicum of their students.

Health Service

The University Health Services (UHS) provided improved services to student and employees with the renovation (expansion) of the Dental Service Unit. It also procured state-of-the-art dental equipment. With the new policy system of the dental health unit, many students availed of its services compared to the previous years. The UHS also provided services to the external campuses and continued to be pro-active in the Dengue Prevention Awareness campaign and related health concerns in the community.

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Dormitories, Classrooms and other Facilities

With the increasing number of foreign students, the University identified the Executive House including one faculty housing unit as co-ed dormitory. The dormitory continued to improve its services with the repair of rooms and toilets.

Instructional facilities and equipments were continued to be upgraded with the acquisition of new and repair of old ones amounting to over Php4 million.

Library Collections

There were 207 book titles with 2,162 volumes that were acquired including library subscription of newspapers, magazines and other publications. The different colleges also continued to acquire references in their college library through donations from alumni and other institutions.

E-Enrollment

Computerized enrollment started in the first semester of SY 2005-2006 with the development of software by the Management Information System section of the University. In 2006, a new E-enrollment system was purchased and implemented at the start of the school year. All colleges and concerned offices like the Registrar's Office were connected to the local area network. More computers were purchased and others were upgraded.

In addition, application forms for admission and announcement on curricular matters were made available through the website of the University and other forms of media. In the external campuses, efforts to admit more students had been also piloted such as the creation of General Curriculum section to accommodate first year students who were not yet decided on what course to enroll.

Faculty Profile

BSU had a total of 318 faculty members. Of these, 38 (12%) were professors; 57 (18%) associate professors, 67 (21%) assistant professors, and 155 (49%) instructors (Table 8). A total of 85 (27%) were PhD holders, 130 (41%) had MS degrees while the rest 103 (32%) were AB/BS graduates (Table 9). Majority of the faculty members (25%) were in the College of Arts and Sciences followed by the College of Agriculture (21%).

Table 8: Faculty profile in the different colleges according to rank

COLLEGE	INSTRUCTOR	ASST. PROFESSOR	ASSOCIATE PROF	PROFESSOR	COLLEGE PROF	TOTAL	(%)
CA	18	8	22	19	0	67	21
CAS	45	13	11	11	1	81	25
CEAT	6	4	1	0	0	11	3.5
CF	10	3	2	0	0	15	4.7
CHET	6	4	1	2	0	13	4.0
CN	7	4	1	0	0	12	3.7
CTE	46	13	13	4	0	76	24
CVM	4	7	0	2	0	13	4.0
IPA	0	0	2	0	0	2	.6
IPES	6	0	2	0	0	8	2.5
R & E	7	11	2	0	0	20	6.3
Total	155	67	57	38	1	318	100
%	49	21	18	12	.3	100	

Table 9. Faculty profile in the different colleges according to degree

COLLEGE	AB/BS	MS/MA	PhD/EdD	TOTAL
CA	19	17	31	67
CAS	26	32	23	81
CEAT	5	5	1	11
CF	5	6	4	15
CHET	4	7	2	13
CN	4	6	2	12
CTE	26	34	16	76
CVM	7	4	2	13
IPA	0	1	1	2
IPES	2	5	1	8
R & E	5	13	2	20
Total	103	130	85	318
%	32%	41%	27%	100%

Faculty Grants and Development

In pursuit of quality education and to improve the passing rate in the professional licensure examinations, deserving faculty members were given study grants. Sixteen (16) faculty members completed their degree: three (3) with doctorate degree and thirteen (13) with master's degree. Sixteen (16) are still pursuing their degree: seven (7) for doctoral degree, five (5) for master's degree, one (1) for Diploma and three (3) for postdoctoral fellows (Table 18).

Two (2) of those with postdoctoral fellowships were at the International Crops Research for Semi-Arid in the Tropics (ICRISAT) in India while one (1) was in South Korea. One (1) seconded at the Philippine Council for Agriculture, Forestry and Resources Research and Development (PCARRD), one (1) on sabbatical leave, and one (1) was awarded a professorial chair by the Philippine Agriculture and Resources Research Foundation, Inc. (PARRFI).

Research & Extension



View of the Research and Extension Field Area in Balili, La Trinidad



Strawberry runner production



Training and Outreach Activities



Training on Taro Production at Naguey, Atok, Benguet



Taro farm in Naguey, Atok



Farmers and Agricultural Technicians diagnosing plant diseases during a validation workshop in Buguias



Interaction with farmers and Agricultural Technicians during the validation workshop in Atok by the STVRDC researchers





Arabica coffee seminar in Kapangan



Arabica coffee seminar at Tuba, Benguet

Upgrading of R & E Facilities



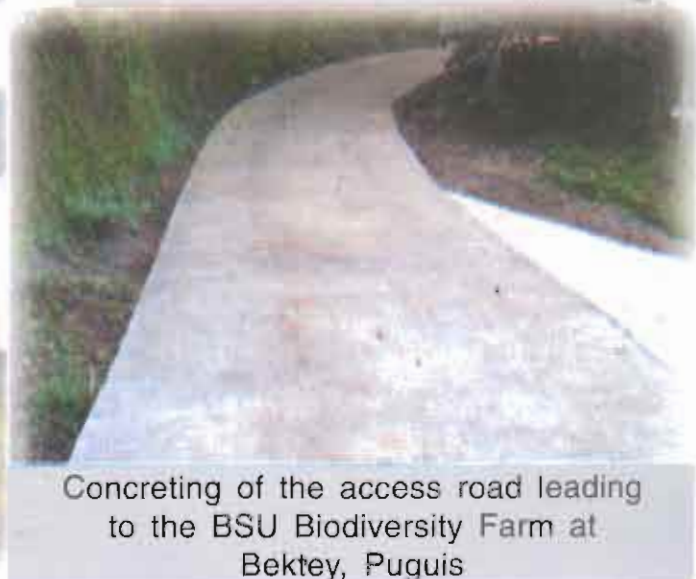
Cementing of NPCRTC building ground



Greenhouse for RMT at Ampasit



Repaired screen house at NPCRTC



Concreting of the access road leading to the BSU Biodiversity Farm at Bektey, Puguis

Research and Extension

The research and extension sector of the University has four (4) research centers and institutes, and offices of Research Services, Extension Services, and Training Services. These units are headed by a Vice President for Research and Extension. The year 2006 was marked with significant and relevant initiatives for research, development, extension and training. BSU scientists continued to reap awards, while the different research centers/institutes, and colleges of the university implemented the research, extension and training activities.

The University was also adjudged the Best in the region and the third nationwide on the search for Outstanding HEI Research Program by CHED in view of the extensive and relevant researches conducted by the faculty and research staff. Through its information technology activities, it was a finalist in the Bridging the Digital Divide, Asia Pacific Economic Cooperation Programme-Digital Opportunity Center that was held in Taiwan.

The University implemented 73 research projects of which 61 were on going, and 12 were completed projects. Twenty-two of which were University funded, 15 had foreign funding supports and 7 were supported by other government agencies. The researchers centered on crop improvement, management practices, crop protection, postharvest practices, marketing, animal production and policy studies, among others.

There were 58 information generated from completed and on-going researches in the areas of crops (49), animal (2), forestry and natural resources (6).

In an effort to provide continuing education to the RDE personnel, 173 staff members were sent to different local, national, and international training courses, seminars and workshops.

The successful implementation of the University's RDE programs has been greatly enhanced through institutional linkages. The University conducted collaborative RDE projects with several local, national and international institutions.

In extension, BSU-on-the-Air a regular radio program was aired with 111 topics disseminated and registering a total of 6,000 listeners. The R and E personnel also rendered the faculty members of the different colleges in the University a wide extent of extension services as well. These include a wide array of topics like crops and livestock production, food processing, and health issues like nutrition and management of human diseases, disaster management and preparation, and others.

Technology piloting, demonstration and commercialization were conducted on romaine lettuce, strawberry and banana sucker production at BSU Balili Experiment Farm. The participatory adoption project on passion fruit using kniffin trellis, agro forestry and old coffee rejuvenation were done in Atok, Tublay, Kapangan and Sablan.

Training programs focused on crop production, disease management, bioenergy, IPR, organic agriculture, literacy training, and campus journalism.

A book on Impact Assessment of R and D Programs in Agriculture and Natural Resources was published while (6) six others were copyrighted during the year. All these publications were secured with International Standard Book Numbers (ISBN) with corresponding certificate of copyright registration at the National Library of the Philippines.

The BSU Research Journal and the RDE Forum, a publication of BSU researches presented in the Cool Highlands were produced. A total of 400 IEC materials such as leaflets and pamphlets were widely distributed to various clientele.

RESEARCH AND DEVELOPMENT

Highlights of technologies/information generated

For the year 2006, a number of information/technologies were generated from the different research projects conducted by the different research and extension units. For root crops, studies on potato, sweet potato and yam particularly on the evaluation of different varieties/clones, crop management and pest and disease management, with the integration of organic farming practices and postharvest researches were done (Table 10). Similar studies were done for horticultural crops, semi-temperate crops and agro forestry products as well as socio-cultural researches.

Table 10. Highlights of technologies/research results generated as of 2006

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
			NPRCRTC
<ul style="list-style-type: none"> ➤ Potato clone 13.1.1 and 13.8.1 were recommended for regional variety release in the Philippine Highlands. This clone is good for processing chip and table potato consumption. Showed moderate resistance to late blight and at present evaluated as a national release. ➤ 10 clones more were selected for advance trial and found to have moderate resistance late blight disease 	1. Evaluation of Processing and Table Potatoes for the Philippine Highlands	1999-2006	I.C. Gonzales D.K. Simongo E.T. Botangen A.T. Botangen F.S. Balog-as T.D. Masangcay
<ul style="list-style-type: none"> ➤ Leyte State University entry was recommended this year for variety release ➤ Newly collected sweet potato local varieties were partially characterized. ➤ Selected 80 sweet potato entries are being evaluated for the advanced yield trial 	2. Varietal Evaluation of Sweet potato Cultivars in the Philippine Highlands	1999-2007	I.C. Gonzales D.K. Simongo E.T. Botangen A.T. Botangen F.S. Balog-as, I.B. Awal
<ul style="list-style-type: none"> ➤ Application of 140-140-220-30 kg/ha of N-P₂O₅-K₂O-MgO gave the highest yield of 62.51 t/ha; highest DMC of 21.50% was obtained on potato applied with 140-140-140; chips derived from potato applied with the different rates of N-P₂O₅-K₂O-MgO are all highly acceptable ➤ Application of KNO₃ remarkably increased the yield of potato (Igorota) to as high as 53.85-56.32 t/ha; DMC and chipping quality are highly acceptable ➤ Paclobutrazol application is recommended during long photoperiods. Plant height was reduced by 23% and 37% at 50 and 100 ppm PBZ application, respectively; increased yield up to 52.85-53.13 t/ha with highly acceptable chipping quality and DMC 	3. Development of Cultural Management Techniques for Processing Potatoes	2003-2007	J.G. Dati H.L. Quindara L.M. Pacuz E.T. Botangen
<ul style="list-style-type: none"> ➤ Organic fertilizer produced relatively higher tuber yield and ROI compared to ash and cow manure. However, the control yielded the lowest. ➤ Sweet potato grown one month before the onset of rainy season produced higher yield and equally comparable when plants are planted one month before the end of rainy season. ➤ Best planting month in Benguet condition is from August to September and February to March to sustain its maximum yield. 	4. Integrated Crop, Soil and Water Management on Root crop Production	2003-2006	J.G. Dati L.M. Pacuz B.T. Gayao D.T. Meldoz C.B. Pulinney
<ul style="list-style-type: none"> ➤ Cropping pattern/sequence was documented from 2003 to 2005 resulting to several root crop plus high value crop cropping innovations 	5. Development of Sustainable Root Crop and	2003-2006	B.T. Gayao J.G. Dati D.T. Meldoz

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
<ul style="list-style-type: none"> ➤ Cost and return for taro + wongbok + zucchini, taro + onion, taro + broccoli and taro-pole beans cropping system were done 	High Value Crop Cropping Schemes		C.B. Pullinney I.B. Awal C. Kilakil
<ul style="list-style-type: none"> ➤ Significantly higher survival of the three antagonists with marked shifting to starch preferences; Pseudomonas sp shifted to canna and Flavobacterium sp was better in yam starch. Only the fungal antagonist (Verticillium sp) showed consistent good growth with potato starch; seven with longer storage at 5 degrees centigrade. 	6. Development of Post Harvest Handling, Processing, and Marketing Strategies for Yam	2003-2007	V.B. Salda F.S. Balog-as B.T. Gayao D.T. Melodz G.S. Backian T.D. Masangcay
<ul style="list-style-type: none"> ➤ Conducted planning workshop for the 2nd year implementation of the project. ➤ Mother plants for stem cutting production are continuously done. ➤ Agreed to fund transfer the 0.5 M released by PCA to BSU, which was transferred Dec. 6, 2006. This will be used for the construction of the community-based nurseries of 5 beneficiaries. <p>1. Beneficiaries of the project include:</p> <ol style="list-style-type: none"> a. Gambang, Bakun b. Tulodan, Atok c. Lam-ayan, Buguias d. Sinto, Upper Bauko e. Monamon Sur <p>2. Agencies involved in potato seed production:</p> <ol style="list-style-type: none"> a. BPI – 65,735 pcs stem cuttings b. NPRCRTC-BSU – 150,800 pcs <ul style="list-style-type: none"> 11,200 pcs 15,370 pcs tubers 10,157 pcs tubers <p>3. No. of planting materials produced</p> <ul style="list-style-type: none"> Igorota – 239,297.1 pcs 57,248.10 pcs Raniag – 22,540 pcs 57,102.50 pcs Granola – 138,043.5 pcs <p>GRAND TOTAL – 514,231.20 pcs good for planting 10.27 has</p> <p>4. ROI – Gambang, Bakun Farmers Cooperative – 62% (G1 production from rooted stem cuttings in the field) Production of G2 seeds – ROI = 234%</p>	7. Technology Commercialization and Enterprise Development: The Case of the Potato Seed Production Project	March 2003 - March 2007	J.C. Perez C.G. Kiswa P.A. Dalang G.S. Backian
<ul style="list-style-type: none"> ➤ Yam cuttings produced roots in one-month time. Yam cuttings produced tuberlets of 10 to 23 g per cutting ➤ No bulbils produced even in the control. (possibly because of the late application of the treatments) ➤ The smallest sett size 25g produced the lowest yield per hill with 471g with an ave. tuber wt of 219g per tuber. The biggest sett size 100g gave the highest tuber yield of 754g per sett and had ave. tuber size of 391g per tuber. All the different sett size treatments yielded 2 pcs of tubers per hill ➤ Rooting of vine cuttings observed to be higher in coir dust as medium. 	8. Development of Sustainable Yam Seed Production Technologies in CAR	2004-2007	P.A. Dalang C.G. Kiswa

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
<ul style="list-style-type: none"> ➤ The application of mulch did not result to taller plants nor did it increase number of stems per plant. ➤ The application of mulch in potato yielded more large tubers but did not differ significantly in the total yield with the potato plants that were not mulched ➤ Higher production of large, medium and small tubers were produced at an intercrop density of 1 hill corn every after 6 hills of potato. ➤ Validation sites – Paoay, Ilocos Norte and Bacnotan, La Union 	9. Potato Production in Tropical Lowlands and Its Contribution to Sustainable Rural Livelihood	2004-2007	J.C. Perez P.A. Dalang J.M. Sim
	10. Varietal Evaluation of Yam for the Philippine Highlands	2004-2007	V.B. Salda, F.S. Balog-as, D.K. Simongo
<ul style="list-style-type: none"> ➤ Clones 13.1.1, 5.19.2.2, 676089, 96-06 and Ganza have potential for organic potato production 	11. Participatory Selection and Evaluation of Potato Varieties for Organic Production in the Northern Philippine Highlands	2004-2007	B.A. Tad-awan D.K. Simongo, C.G. Kiswa
<ul style="list-style-type: none"> ➤ G0-467 was recommended for national variety release ➤ Itchina is still the best for regional recommendation. 	12. Varietal Evaluation of Taro and other Aroids for the Philippine Highlands	2004-2007	I.C. Gonzales I.B. Awal, E.T. Botangen F.S. Balog-as, H.L. Quindara
<ul style="list-style-type: none"> ➤ Intercropping potato with corn gave the higher yield with an average of 18.26 kg/plot but did not significantly differ with the yield of potatoes intercropped with corn at an average yield of 13.35 kg/plot. ➤ The yield per plot did not significantly differ between the varieties. It was observed however that the variety Solibao had slightly higher yield with an average of 7.03 kg/plot as compared to only 4.06 kg for Raniag. ➤ The different method of irrigation did not show significant differences in the yield per plot in the trials conducted at Bacnotan and Batac. Both sites showed that higher yield was produced when overhead irrigation was practiced. This could be due to the higher non-marketable tubers harvested with the flooding treatment because of rotten tubers. 	13. Identifying Lowland Environment and Crop Management Components in Northern Luzon, Philippines	April 2004 – 2007	J.C. Perez P.A. Dalang J.M. Sim N. Legaspi L. Sister
<ul style="list-style-type: none"> ➤ Partial reports showed that Yacon production in Nueva Vizcaya particularly Balance was started by a Japanese in 2000. Production area increased from 2002-2004 and gradually decreases in the year 2005. The reason for the decreased was the limited market outlet and lack of processing development for Yacon. Other data gathered are being analyzed. 	14. Yacon Production Technology Assessment and Industry Profile	Mar 2004 to Apr 2008	C.G. Kiswa P.A. Dalang J.C. Perez
<ul style="list-style-type: none"> ➤ A book on medicinal value of root crops was launched during the 90th University Foundation Anniversary celebration. 	15. Sustainable Root Crop Conservation	2004-2010	C.G. Kiswa, V.B. Salda I.C. Gonzales, D.K. Simongo, F.B. Balog-as
<ul style="list-style-type: none"> ➤ Industry profile of each commodity for publication (Launched during the BSU 90th Foundation Day) 	16. Root Crop Industry Strategic Plan	2005-2006	NPRCRTC technical staff

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
<ul style="list-style-type: none"> ➤ Presented during the Agency In-house Review ➤ Presented during the Sectoral Commodity Review (awarded as First Place among the Social Category) ➤ Presented during the Seminar and Annual Convention of the International Society for Southeast Asian Agricultural Sciences Inc. (ISSAAS) ➤ Remanding the strategic plan to the Northern Phil. Root Crops Research and Training Center for the inclusion of the comments/suggestions given by the Board of Regents. 			
<ul style="list-style-type: none"> ➤ Return on investment for wine was higher than juice. ROI of SP wines ranged from 29.45% to 51.28% while juice ranged from 4.39% to 7.36%. SP juice is being utilized within a day because of its short storability. ➤ Fruits are added as flavoring for sp wine and juice. Sweet potato Haponita recommended for wine and juice processing. SP wine and juice is a healthy drink with a natural red coloring because of its high anthocyanin content. Anthocyanin is claimed to be good for the heart. 	17. Participatory Evaluation of Sweet potato Varieties for Wine and Juice Processing	2005-2006	I.C. Gonzales E.T. Botangen
<ul style="list-style-type: none"> ➤ Production of G0 tuberlets in the greenhouse increased two to three times with the implementation of repetitive harvesting. The set-up for the validation of pea-size planting materials was destroyed by hailstones and strong winds brought by typhoon Caloy. ➤ Dispersal of rooted stem cuttings to farmer clientele ongoing 	18. Improvement of Potato Seed Production Technology in the Philippines	Oct 2005 - 2006	J.C. Perez P.A. Dalang C.G. Kiswa G.S. Backian
<ul style="list-style-type: none"> ➤ Selected 2 beneficiaries from Benguet namely: Gakian-Mabuhay in Bakun and Lein-ingaan Irrigators Association in Tulodan, Atok ➤ Distributed rooted stem cuttings, G0 seed tubers for production of G1 seed tubers <ul style="list-style-type: none"> a. Gambang, Bakun <ul style="list-style-type: none"> 2,600 pcs G0 seeds (Igorota, Raniag varieties planted March 13, 2006) 25,000 pcs, stem cuttings (Igorota variety planted April 14, 26, May 7) 40 kg G0 seeds (Igorota variety planted March 24) b. Tulodan, Atok <ul style="list-style-type: none"> 11,300 pcs. stem cuttings (Igorota var. planted April 26, May 21) 6,500 pcs. stem cuttings (Raniag var. planted April 26, May 7) 7,200 pcs stem cuttings (Igorota variety planted May 7) ➤ Conducted soil testing and field inspection of beneficiaries' areas ➤ Selected four beneficiaries from Mt. Prov. ➤ Conducted the training for the accreditation of field inspectors ➤ Conducted seed production training for members of the associations 	19. Potato Seed Production Project	Mar 2005 - Feb 2007	J.C. Perez P.A. Dalang C.G. Kiswa G.S. Backian J.M. Sim
<ul style="list-style-type: none"> ➤ Ubi-buko candy, ubi haleya, ubi/SP fruit flavored wine and juice were the products disseminated to interested 	20. Development of Sweet potato and other	2005-2007	E.T. Botangen I.C. Gonzales

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Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
<p>partners.</p> <ul style="list-style-type: none"> ➤ Product costing was done and production cost for the products was taken. Ubi-buko candy (Php12.83), ubi haleya (Php48.23), ubi/SP fruit flavored wine in Sablan, La Trinidad, Sagada and Banaue was 52.54, 46.35, 40.0 and 40.80, respectively. ➤ Fruit flavored juice ranges from PhP17-18 per 350 ml. ➤ ROI ranges from 23.72-51.28% for wine, 4.39-7.60% for juice, 9.12% for ubi-buko candy and 14% for haleya. ➤ Two products were generated (SP-fruit flavored powder juice and SP agar-agar powder) 	Root crop-based Food Products		B.T. Gayao
<ul style="list-style-type: none"> ➤ Yacon fresh wt., DMC and sugar content decrease as the duration of storage increases. ➤ Wine. The pure yacon has an alcohol content of 13.54 % while the pure strawberry has 11.53%, and yacon +sweet potato with 10.35%. The yacon + citrus gave the highest alcohol content followed by the yacon + different mixture, at 47.67 and 39.06 % respectively. The lowest was from yacon + strawberry with 7.0% alcohol. The lowest sugar content was from yacon + sp with 9.0% followed by pure yacon with 9.78%; The highest was from yacon+citrus with 20.5% and pure strawberry wine with 14.0%. ➤ The most acceptable wine was from yacon + sp, pure strawberry wine and yacon +different mixture. The pure yacon wine was rated slightly accepted. ➤ Yacon Vinegar. The cane sugar vinegar was rated highly acceptable vinegar with 9.0 rating. All the other yacon-base treatment vinegar including the pure yacon vinegar has an acceptability rating of 6.8 to 7.4. ➤ Yacon Pickles. All the treatments yacon-base pickles have similar acceptability of 6.2 to 7.4. Pickles out of yacon can improve the color, crunchiness and flavor characteristics of pickles 	21. Post harvest Technologies in Yacon	2005-2007	T.D. Masangcay E.T. Botangen
<ul style="list-style-type: none"> ➤ Variety granola produced the most number of micro tubers per plantlet with 4 pcs, followed by Igorota with 3 pcs and the least was from Raniag with 2 pcs. The average weight per micro tuber in all the three varieties ranges from 0.31 to 0.42 g. 	22. Conservation and Multiplication of Germplasm through In-vitro Culture	2005-2008	C.G. Kiswa
<ul style="list-style-type: none"> ➤ Application of neem and garlic gave the highest % decrease in population of bacterial wilt in the soil. ➤ RC Experimental Blocks 11, 12,13,15,18, 26,39,43,44 & 50 had 23.19 to 54.41% infection. Biovar identified was biovar 3, which is equivalent to race 1. Soil samples from blocks 1-6 showed no bacterial wilt infection. 	23. Integrated Pest Management on Potato	Mar 2005 to Mar 2008	J.C. Perez G.S. Backian J. Basngi
<ul style="list-style-type: none"> ➤ The Nangalisan Barangay Council showed interest in the project and are willing to provide the site as well as the building The Nangalisan farmers irrigators association were the beneficiary and any income derived from the project will be used to improved irrigation facilities as well as fund nutrition program 	24. Community- Based Promotional Initiatives of Selected Root crops Processing Technologies	2006	E.T. Botangen D.T. Meldoz C.B. Pulinney B.T. Gayao
<ul style="list-style-type: none"> ➤ Pure culture of Biological Control Agent ready for mass production and formulation study ➤ A diseased yam tuber was used 	25. Organic Root crop Production and Good Agricultural Practices	2006-2007	J.C. Perez J.C. Gonzales, J.G. Datri

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
			G.S. Backian, L.M. Pacuz
<ul style="list-style-type: none"> ➤ Two project beneficiaries have been identified- the Immaculate Conception Multi-purpose Cooperative and BABUDEMCO. The beneficiaries were asked to identify sites for nursery. 	26. Enhancing the Availability of Quality Potato Seed through Community Participation to Strengthen the Potato Seed System in the Cordillera	2006-2008	J.C. Perez P.A. Dalang T.D. Masangcay
<ul style="list-style-type: none"> ➤ Isolation of biological control agents vs. SP weevil ➤ Oatmeal agar showed the best growth 	27. Control of Major Pest Diseases of Vegetables using Biopesticides	2006-2008	J.C. Perez T.D. Masangcay
<ul style="list-style-type: none"> ➤ Proliferate virus-free potatoes ➤ Conserve potato and sweet potato germplasm 	28. Collection, Maintenance and Propagation of Root crops Germplasm Through In-vitro Culture	2006 – continuing	C.G. Kiswa P.A. Dalang T.D. Masangcay
<ul style="list-style-type: none"> ➤ Survey results were presented to the school teachers, mothers and Barangay nutrition workers ➤ School children consumption of vegetables, roots and tubers higher than expected ➤ Scheduled baseline data gathering in Ifugao 	29. Comparative Evaluation of Nutrition Interventions to Promote Children's Consumption of Vegetables, Roots and Tubers	2006-2008	B.T. Gayao D.T. Meldoz NPRCRTC
			STVRDC
<ul style="list-style-type: none"> ➤ The Opius sp. treated plots had comparable count of leafminer larvae and degree of injury with that of the plots sprayed with Padan 50 SP, Trigard 75 WP and alternate spraying of Padan 50 SP and Trigard 75 WP. ➤ The marketable yield of potato on the Opius treated plots was higher than the yield on the Trigard 75 WP treated plots and comparable with Padan and Padan-Trigard treated plots. ➤ The ROI on the Opius treated plots was higher than the Trigard treated plots but lower than the Padan and Padan-Trigard treated plots. 	1. Use of Parasitoid to Manage Leaf miner Associated with Semi-Temperate Crops in the Cordillera	2004-2006	B.S. Ligat
<ul style="list-style-type: none"> ➤ Ethno botanical survey Forty-seven (47) indigenous vegetables were recorded from the eleven municipalities of Benguet and from the four municipalities in Mountain Province and including Baguio City. Of these plants that are distributed to 21 families, a greater number, 19.15%, belong to Asteraceae, followed by 10.64% in Solanaceae. The third and fourth most number of species is the Amaranthaceae, 8.51% and the Cruciferae and Passifloraceae, both 6.38%. Four species are still without their scientific names but their common names using the dialect in the place where they are found were given. ➤ Preliminary survey was done in eight municipalities of Ifugao and Apayao to follow. Five voucher specimens of indigenous plants were identified in the area. These will be also subjected to phytochemical analysis. ➤ In vitro propagation Protocols for Lagiwey (<i>Lactuca indica</i> L.), endemic bogo- 	2. Towards a Sustainable Semi-temperate Vegetable Production: Characterization, Genetic Conservation and Propagation of the Indigenous Vegetables of the Highlands of Cordilleras	2004-2006	L.G. Lirio

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
<p>nia (<i>Begonia</i> spp.), Tangtangsoy were established for callus formation, shoot proliferation, and root initiation.</p> <ul style="list-style-type: none"> ➤ Phytochemical analysis -Preliminary procedures for phytochemical 			
<ul style="list-style-type: none"> ➤ Analyses of collected indigenous vegetables were done. Thirteen plant extracts were gathered through the rotary evaporator. These will be subjected to toxicity test and to be further tested for the presence of secondary metabolites. ➤ Vitamin and mineral analysis Chemical and vitamin analyses of the indigenous vegetable collected were brought to UPLB. Vitamin and mineral or ash content, protein, dietary fibers, nitrogen free extracts or carbohydrates, and moisture content were partially obtained 			
<ul style="list-style-type: none"> ➤ Balanced Fertilization Strategy on Cabbage: Application of farmer's fertilizer rate of 250-100-100 kg. N-P2O5-K2O/ha + 7 tons/ha chicken manure gave the heaviest cabbage yield. Comparable result was obtained from plants applied with 100% RR+ 5 tons/ha chicken manure. Those fertilized with various combinations of inorganic-organic fertilizers had slightly lower yields. These came from application rates of 25% RR+ 75% C.M.; 75%RR + 25% C.M.+B; and 75%RR+ 25% C.M. ➤ Balanced Fertilization Strategies on Potato: Fertilizer application rate of 100%RR+5 tons/ha FOF+B produced the heaviest total yield of potato tubers. Comparable yields were obtained from reduced application on inorganic fertilizer from combinations of 25%RR+ 75%C.M.; 25%RR+ 75%C.M.+B; and 50%RR+50%C.M. These treatments were equally effective with those that receive 100%RR indicating that reduced rates of 25-50% of the recommended inorganic fertilizer can produce profitable yield. 	<p>3. Balanced Fertilization Strategy for Semi-temperate Vegetables in the Highlands</p>	<p>2004-2006</p>	<p>M.M. Marquez</p>
<ul style="list-style-type: none"> ➤ The number of diseases recorded during the survey was: Crucifers 13 (Cabbage, Chinese cabbage, and Cauliflower); Solanaceous crops 13 (potato, pepper); Legume crops 7 (garden pea and beans); Apiaceae crop 5 (Carrots); Lettuce crop 4; other crops 3 (Onion, Celery, Cucumber, Sugar beets) and Weeds 9 (<i>Bidens pilosa</i> L., <i>Oxalis corniculata</i>, <i>Rumex crispus</i>, <i>Ageratum conyzoides</i>, <i>Galinsoga parviflora</i>, <i>Symphylum peregrinum</i> L., <i>Digitaria sanguinalis</i>, <i>Eluesine indica</i> and <i>Crassocephalum crepeoides</i>) ➤ Isolation of microorganisms from soil samples through dilution technique yielded 15 genera of fungi and 5 genera of bacteria. ➤ The extension part of the project was the presentation of the diseases observed and recorded in Benguet for validation by farmers and Agricultural Technicians. Lecture on disease management was provided as immediate solution to the disease problems on vegetables. The participants were given the actual experience to identify dis- 	<p>4. Survey, Mapping and Identification of Soil borne Pathogens, Pathogen Vectors and Alternative Weed Hosts in Benguet</p>	<p>2004-2006</p>	<p>A.L. Nagpala</p>

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
eases through diagnosis using light microscopy. A total of 99 participants attended the workshop.			
<ul style="list-style-type: none"> ➤ Evaluation of selected potato entries in different agro-ecological zones of Benguet (Multilocation trials) ➤ The best entry in all locations is CIP 13.1.1. This entry showed the best performance in terms of yield, resistance to late blight and return on cash expense. ➤ Yield, resistance to late blight and high canopy cover are the primary basis for selection by the farmers and was exemplified by entries 13.1.1, 573275, 676089, 5.19.2.2, 676070 and 380251.17. ➤ Correlation of morphological characters and marketable yield in potato genotypes grown organically Correlation analysis revealed that marketable yield was significantly correlated with number of secondary stems, haulm weight, canopy cover at 75 DAP, diameter of stem and length of roots. Significant positive correlation exists between harvest index and dry matter content of tubers and leaf area. ➤ Agronomic characters of potato entries applied with organic fertilizers under La Trinidad, Benguet condition. Plants applied with BSU compost produced the highest yield in potato under La Trinidad, Benguet condition. Entry 676089 was the best performing potato entry in terms of yield and resistance to pests and diseases. Entry 676089 not applied with any organic fertilizers was the best performing combination in terms of yield and ROCE for seed tuber and table potato production. The use of organic fertilizers on the different potato entries was profitable when sold as seed tubers. ➤ Verification study on the performance of selected potato entries for rooted stem cuttings production. ➤ The performance of the potato entries varied at the earlier stage and later stage of growth of the mother plants. More stem cuttings were produced at 60 days after planting. Potato entry 676089 produced the most number of stem cuttings while entry 13.1.1 produced the least. 	5. Participatory Evaluation and Selection of Potato Varieties for Organic Production in the Northern Philippines Highlands	2004-2006	B.A. Tad-awan
<ul style="list-style-type: none"> ➤ A pre-assessment survey among 35 respondents from Atok, Benguet and 40 from Buguias, Benguet have indicated that majority of the respondents in both groups were able to identify two of three symptoms mainly, clubbed roots. ➤ Majority of the group of farmers in Atok and Buguias have vegetable areas infected with club root disease; with more farmers in Atok indicating that their farms are infected with club root disease more than 15 years. ➤ Knowledge level on symptoms of the disease differs between the two groups with the Atok group more knowledgeable than the Buguias group. ➤ Majority of the respondents have no idea about the causal organism of clubroot disease. Knowledge on the length of spore viability of the causal agent differs significantly between the two groups of respondents. ➤ As an intervention activity at the farmers' fields, re- 	6. Participatory Evaluation of Club root Disease Management Strategies on Crucifers	2004-2006	B.S. Tad-awan

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
<p>searches comparing alternative technologies from farmers' practices were done in three farmer-researchers' sites.</p> <ul style="list-style-type: none"> ➤ In one site where the untreated plot had moderate clubbing, the use of mushroom compost combined with transplanting a month-old potted Chinese cabbage seedling had the least clubbing followed closely by use of lime to raise pH to 7.3 a month before transplanting the seedlings. These two management strategies can be better alternative to the farmer's practice of liming with dolomite per hill before transplanting potted seedlings. ➤ As to economic analysis, the use of mushroom compost resulted in higher additional benefits, marginal benefit cost ratio and returns above variable costs when compared to the use of dolomitic lime the farmer's way. 			
<ul style="list-style-type: none"> ➤ The root-knot nematode, <i>Meloidogyne incognita</i> is an important parasite of vegetables. Five commercial cultivars of lettuce were evaluated under greenhouse condition for resistance to <i>incognita</i>, Benguet population. Plants were inoculated with 1000 nematode eggs collected from 'Apollo' tomato (<i>Lycopersicon esculentum</i>) roots with 1% NaOCl. The degrees of galling and egg production were assessed 4 and 8 weeks after inoculation. Host plant reaction was classified as immune, highly resistant, resistant, moderately resistant, intermediate, moderately susceptible, and highly susceptible based on resistance index by Kouamè et al, 1998 [$RI = \sqrt{\text{gall}^2 + \text{egg}^2}$]. Inoculation of 1000 eggs/pot significantly affected the growth and yield of five lettuce cultivars 4 and 8 weeks after inoculation. Based on the host response index, cultivar Great lakes and Gilaben were highly resistant and resistant, respectively, while Red Wave, Ballon, and Lollo Rosa were Intermediate and considered as suitable host. 	7. Sustainable Management of Plant Parasitic Nematodes Associated with Semi-temperate Vegetables in the Cordillera	2004-2006	L.M. Villanueva
<ul style="list-style-type: none"> ➤ Initiation protocol for lettuce, broccoli, and cauliflower established ➤ Shoot proliferation for lettuce, broccoli, and cauliflower established. ➤ In vitro rooting for lettuce, broccoli, and cauliflower, ongoing. 	8. Micro propagation: An Alternative to Vegetable Seed Importation	2005-2007	V.D. Alejandro
<ul style="list-style-type: none"> ➤ Pole bean entries Blue Lake, Violeta, CPV 64, Taichung, N 2643, have highly yield and resistance to rust and leafminer. ➤ Green Crop, Hab 323, Torrent are bush bean entries having high yield and resistance to rust. 	1. Varietal Improvement of Semi-Temperate Vegetable Crops	1994-2010	<p style="text-align: center;">HORTI</p> L.L. Tandang A.M. Kimeu
<ul style="list-style-type: none"> ➤ Greatest net profit was derived from growing cabbage at Php 577,345/ha. Land productivity for two croppings was highest in squash-cabbage cropping sequence at Php 854,980/ha. Off (wet)-season cultivation of lettuce under greenhouse is profitable with a net profit of Php 224,217/ha. 	2. Development of Market-Oriented Cropping Schemes for Vegetable Crops	1996-2007	P.B. Allpit
<ul style="list-style-type: none"> ➤ Ladybug beetle <i>Hipodamia convergence</i>, syrphid flies, and lacewings were identified as predators of aphids in 	3. Integrated Pest Management on Selected	1998-2010	E.V. Cardona, Jr.

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
festing cabbage.	Vegetables		
➤ Garden pea entries CGP 18-A, CGP 34, CGP 116, CGP 11, CGP 154, CLG, 89-001 have high yield and resistance to leafminer.	4. Development and Piloting of Improved Varieties of Garden Pea	1999-2010	L.L. Tandang A.M. Kimeu
➤ Combination of Flavobacterium sp. and Pseudomonas sp. could reduce the population of Fusarium wilt in chrysanthemum	5. Management of Major Soil-borne Diseases of Selected Highland Crops	2001-2007	LM. Villanueva
➤ Agrimek 1.8 EC and Dimotrin 50 SP are insecticides found less toxic to parasitoids of leafminer.	6. Management of Leaf miner of Selected Vegetables in the Cordillera	2001-2010	B.S. Ligat
➤ Lettuce could tolerate soil moisture depletion to 60% of field capacity, beyond which the crop could experience water stress and application of 120 kg K ₂ O/ha could enable the crop to withstand water stress.	7. Stress Management in Temperate Vegetable Crop Cultivation	2003-2009	P.B. Alipit
➤ Subjecting Benguet lily seeds to cold moist stratification at 50C for 14 days after air drying prior to sowing promotes germination and seedling establishment ➤ Dipping Benguet lily bulb scales in Hormex solution at ¼ tsp/gal water or full strength ANAA for 5 minutes enhances rooting.	8. Development of Production Technologies for Benguet Lily	2005-2010	A.G. Ladilad
➤ Formulation of mushroom soup, sauce, puto, tea, pulvurun products	9. Commercialization of Dehydrated Oyster and Shiitake Mushroom	2006-2008	J.S. Luis
			IHFSA
➤ Observations show that gain in weight reached about one kg when the pigs were 4-5 months old. ➤ About 3 kg of weight was gained at 10-11 months old. Upon 12 months of age, the pigs gained 3.5 kg	1. Highland Pig Development and Conservation Project	2003-2007	S.B. Maddul G.R. Tabon N. Pilayan M. Abad
➤ Information campaign on the use of medicinal plants ➤ Validation of medicinal plants used by farmers from different regions in the treatment of poultry disease ➤ Manual of medicinal plants used for the treatment of poultry diseases ➤ Medicinal plants growing in the areas were collected and identified ➤ Demonstration on treating poultry disease	2. Indigenous Knowledge on Animal Health and Production in the Highlands	2003-2007	C.S. Battad S.B. Maddul B. Luis M. Walsiyen J. Runas L.Ogbinar
➤ Results reveal that the Arabica coffee trees with four vertical branches maintained (T2) gave the highest yield of 1.706 kg per tree ➤ Arabica coffee strains: Kenya 38, Red Bourbon and Grànica fine leaf have the highest average plant height of 146.18 cm, 135.88 and 135.44 cm, respectively two years after field planting. ➤ Plant applied with goat manure (T4) yielded the highest fresh berries with a mean of 1401 fresh berries (g/tree)	3. Ten Year Coffee Rehabilitation and Development in CAR	1999-2009	V.L. Macanes A. A. Basalong M.M. Marquez B.S. Ligat L.M. Colting L. Verzola
➤ The virus-like disease of Passiflora edulis Sims and Passiflora edulis f flavicarpa Sims that are observed in the surveyed areas was initially identified as passion fruit woodiness virus ➤ Passiflora edulis f flavicarpa Sims was found in lowland areas with moderate to severe PFVW infection.	4. Passion Fruit Research and Development	2004-2009	J.S. Ligat

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
COLLEGE-BASED PROJECTS			
<ul style="list-style-type: none"> ➤ A total of 90 rice landraces were collected from the different municipalities. Most collections were from Kibungan. Kintoman cultivar was common in four municipalities. Among the legumes, Lima bean collections had 23 collected in eight municipalities. ➤ Based on seed viability, 16 rice landraces and eight lima bean collections were further characterized and evaluated under field conditions. The evaluation of rice landraces was conducted at Balli, La Trinidad, Benguet from January 2005 to June 2005. Correlation analysis was done in the different vegetative characters measured. 	<p>1. Indigenous Agronomic Crops (Rice Landraces and Lima Beans): Opportunity for Sustainable Conservation in Benguet</p>	<p>2003-2006</p>	<p>B.A. Tad-awan D.P. Padua G. Calama F. Sagayo G.A. Payangdo E.J.D. Sagalla E.O. Badoi</p>
<ul style="list-style-type: none"> ➤ <i>G. lucidum</i> was found fruiting at lower elevation like in Manaog, Pangasinan at 280 MASL and higher temperature from 25 to 31°C while <i>G. applanatum</i> was found at higher elevation like in Sablan, Benguet at 900 MASL and lower temperature from 20 to 26 °C. ➤ Majority of the respondents are aware about Ganoderma with the Ibaloi group more aware and knowledgeable than Pangasinense group as to Ganoderma mushroom and its uses. Majority of the respondents regardless of educational attainment claimed Ganoderma as Neutriceutical, preventing diseases such as cancer, kidney, allergies and as cleansing. ➤ Collected Ganoderma mushrooms basically grow on a wide variety of woods, typically found on the sides of downed logs, tree stumps, stems and trunks of living trees 	<p>2. Ganoderma: Potential Neutriceutical Source in Luzon</p>	<p>2005-2006</p>	<p>B.S. Tad-awan J.V. Cuaresma J.A. Aspiras</p>
<ul style="list-style-type: none"> ➤ The tested forest grass is a potential substrate for the cultivation of oyster mushroom under La Trinidad conditions. The mycelial spawn run under dark conditions took 30 days while the fruit body formation had a range of 8-20 days from the time they were brought out under fruiting conditions. The period of harvest varied from 20-41 days 	<p>3. Biology and Productivity of Oyster Mushroom on Forest Grass</p>	<p>2005-2006</p>	<p>D. L. Domondon</p>
SPECIAL PROJECTS			
<ul style="list-style-type: none"> ➤ Establishment of five counterparts sites for techno-demo farms ➤ Farm plans were prepared and implementation strategies were mapped out with the district counterparts ➤ Introduction of suitable cultural management practices on rice, root crop, vegetable crop production, seed production, soil fertility management Conducted training on soil and water analysis; Soil, water, and crop management; and animal draft power ➤ Distributed information materials on 1) Rice production manual, 2) Soil and water analysis manual, 3) Soil fertility management guide, 4) Operation and maintenance manual for water control structures 5) Training manual on 	<p>1. South-South Cooperation in Support of Food Security Program in Papua New Guinea</p>	<p>2002-2005 (reported on 2006)</p>	<p>S.K. Aben</p>

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
draft animals, 6) techno guides			
<ul style="list-style-type: none"> ➤ Reconnaissance was done as a shovel work for land use and land cover familiarization. Ground control points using Global Positioning System (GPS) receiver was conducted as well on land marks within the study site. ➤ Focus group discussion was performed involving the community people after which informal education was conducted on a different schedule to educate the community on GIS mapping. Series of workshops in a form of resource mapping using the satellite images of the barangay was done. ➤ Survey interviews were performed to determine the different crops planted by the farmers and to elucidate necessary information on socio-economic aspect. Validation on the biophysical and socio-economic data was conducted after the workshops. The group alone executed Georeferencing and ground truthing. After data gathering the output of the community was processed in the GIS laboratory for digitizing and further analysis using the procured GIS and RS software packages. 	2. Crop Zonification of Kapangan using Geographic Information System (GIS)	2003-2008	P.G. Salcedo E.F. Dayap D. Manengyao
<ul style="list-style-type: none"> ➤ Vegetable candidates identified were broccoli, cabbage, cauliflower and Chinese cabbage. ➤ Cauliflower and broccoli were identified the "best bet" brassicas. ➤ The Regional Biofumigation Workshop was conducted at BSU. ➤ Some information on the technology has been published in popular form. One seminar on Biofumigation was conducted. 	3. Evaluating Biofumigation for the Control of Soil borne Diseases in Tropical Vegetable Production	2004-2006	LA.D. Lando V.P. Justo R.G. Bayot
			ISRD
<ul style="list-style-type: none"> ➤ Secondary data gathering on processing techniques of the strawberry products has started on July 2006 ➤ Organized one meeting of processed strawberry consumers to determine product attributes on August 6, 2006 ➤ Conducted triadic sorting during the Adivay Festival at the BSU Gym in Nov. 13-Dec. 01, 2006 	1. Integrated Quality Management of Processed Strawberries Phase 1: The Ideal Strawberry Products Based on Consumer Requirements: A Conjoint Analysis Approach	Jan- Dec. 2006	MK T. Dagupen MA. Lubrica and ISRD research assistants
<ul style="list-style-type: none"> ➤ Triadic sorting ➤ Questionnaire preparation and pre-test ➤ Data gathering in La Trinidad, Baguio City, Pangasinan, Tarlac, Pampanga, Bulacan, Metro Manila and Visayas and Mindanao 	2. The Ideal Vegetable Attributes Based on Consumer Requirements: A Conjoint Analysis		MK T. Dagupen X. Gellynck B. Gumihid
<ul style="list-style-type: none"> ➤ Questionnaire preparation and pre-test among vegetable consumers ➤ Data gathering in La Trinidad, Baguio City, Pangasinan, Tarlac, Pampanga, Bulacan, Metro Manila and Visayas. 	3. Consumer Perception of Fresh Vegetables as Input for Integrated Quality Management (IQM)		MK T. Dagupen X. Gellynck J.M. Siano
<ul style="list-style-type: none"> ➤ Data gathering and encoding 	4. Innovation in the Vegetable Sector in Northern Philippines		J.A. Solimen
<ul style="list-style-type: none"> ➤ Meeting with the faculty researchers and partners in Bokod, Benguet on August 4, 2006. 	5. Product and Market Development of Lemongrass (Cymbopogon		MK T. Dagupen J. K. Avila L.L. Lino

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Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
	citates) for Entrepreneurial Venture		L. Moreno
➤ Partial data analysis continued in-depth data analysis	6. Innovation Potentials in Micro, Small, and Medium Enterprises in Cordillera Administrative Region		MK.T. Dagupen R. Januszewska J. Viaene, L.N. Tagarino, D. Tagarino R. Arguelles (SLU) R. Bautista (SLU) J.M. Siano (PIUC-ISRSD)
	7. Problems, Issues and Trends Affecting BSU College Students with Deficiencies		BSU-ISRSD Network Faculty Researchers and ISRSD Staff
➤ Conducted FGDs and interviews with the mumbakis in Tinoc, Ifugao. ➤ Secondary data	8. The Bulul in the Agricultural Life of the Ifugaos		MK.T. Dagupen, P. Lubrica, L. Madino CTE faculty researchers
➤ The barangay officials of La Trinidad, Benguet which include the chairman, secretary, treasurer, SK (Sanguiang Kabataan) chairman, and kagawads were the respondents of the study. There were 93 samples considered from the thirteen barangays of the municipality. ➤ Results showed that the local government officials of La Trinidad, Benguet were fair in terms of their ability level in computer related tasks. Among the task included, the respondents rated highest in word processing tasks. In addition, barangay Poblacion ranked first while barangay Ambiong ranked last among the barangay included, with regards to their literacy level. Furthermore, the respondents considered word processing software training program as the top training program needed by the local officials, followed by spreadsheet, desktop, presentation and the use of the internet, respectively	9. Assessment of the Computer Literacy Needs of the Local Government Officials in the Municipality of La Trinidad, Benguet	2005-2006	M.L. Dom-ogen
➤ Results show that there were factors affecting students' mathematics satisfaction and science at BSU Bokod campus. In mathematics these factors were: Student Emotions; Parents Interests; Parent's and Student Reaction; Parents and Student Concern; Students Study Habits; Student Academic Performance and Enjoyment; High School Performance; Teacher Factor; and Importance of Class Standing and Difficulty Level of Subject. In physics, the factors were: Student's Study habits; Parents Interest; Student Emotion; Parents Reaction; Student's Psychological Factor; Teacher Factor and Personal Assessment of Academic Performance; Parents Concern and Effect of Academic Performance to Student; Student's Personal Assessment of Academic Performance; Student's Feeling of Concern; and Subject's Difficulty Level; There were factors affecting students mathematics satisfaction in mathematics at BSU Buguias campus. These factors were: Student's Emotions; Parent's Interest and Concern; Parent's Reaction; Students Reaction and Teacher Factor; Student's Psychological	10. Factor Analysis of College Student's Performance in Mathematics and Sciences at BSU Bokod and Buguias Campuses	July 2005 February 2006	B.B. Dolipas MPS Faculty

Technology/Information/ Research Result Generated	Title Of Project	Duration	Center/Institute/ College/Project Leader Involved
Status; Student's Study Habits; Student's High School Performance; Importance of Class Standing and Difficulty Level of Subject; and Student's Academic Performance.			
<ul style="list-style-type: none"> ➤ Results revealed that majority of the respondents agreed that they are aware of the VMGOs of the university, college, department, and program; that the VMGOs are clearly and understandably stated; and that fully understand the meaning and/or implication of the VMGOs. ➤ Similarly, majority of the respondents agreed that the VMGOs are acceptable to them; that the VMGOs of the University are consistent with the VMGOs of the College, Department, and Program; and is consistent with the actual educational practices 	11. An Assessment of the Vision, Mission, Goals and Objectives of Benguet State University; College Of Arts and Sciences; Mathematics-Physics-Statistics Department; and Bachelor of Science in Information Technology	July 2005-April 2006	JC. S. Borje MPS Faculty
<ul style="list-style-type: none"> ➤ Findings revealed that the independence variables were strongly agreed by the physics students. However, female respondents strongly agree on the independence variables while the male respondents just agree. On the coherence of physics, female respondents strongly agree that knowledge in physics consists of many pieces of information each of which applies primary or specific situation while the male just agree on this. On the perception aspect of physics, there are reality-link variables which students greatly agree. Both male and female respondents in the three year levels agree that learning physics is a matter of acquiring knowledge. On the mathematics links of physics, majority of the students in the three-year levels agree that to achieve career goals, good understanding in physics is necessary. The responses of students according to year level and gender do not differ significantly. ➤ The following are the recommendations of the study: students should be trained more to work on their physics subjects independently, concepts in physics should be clearly understood by students for them to have a better expectation in physics; students should know more how to relate concepts in physics to the real world or real life situations; students should be able to apply skills in mathematics in the understanding of the concepts in physics; and teachers should enhance student's positive expectations in physics to be able to appreciate and understand more the subject. 	12. Physics Expectations of Bachelor of Science in Education (BSE) Students Majoring in Physics	Oct 2006- Dec. 2006	JC. S. Borje MPS Faculty

Updates of On-going R & E Programs/Project/Activities

For 2006, there are around 47 on-going projects that are still to be continued for several more years before results can be determined (Table 11). The following table describes the status of each project, and the activities that were initially done for the year. Among these are: college-based researches like tracer studies and other social researches in coordination with the Institute of Social Research; researches on semi-temperate vegetables and horticultural crops like cabbage, potatoes, carrots, tomatoes and others; highland practices and indigenous practices are being done.

Table 11. List of on-going research and extension programs/projects/activities

PROGRAM/PROJECT/ ACTIVITES	DURATION	UPDATES/STAGE (BRIEF NARRATIVE)	CENTER/ INSTITUTE/ COLLEGE	RESEARCHER/ PROJECT LEADER
			ORS	
1. Collection, Identification and Characterization of Indigenous Fruit Crops Consumed by People in the Cordillera	2006	On-going	College of Agriculture/ HORTI	A.G. Ladilad et al.
2. Development of Simplified Key to Soil Series Identification as a Tool to the Establishment of Sustainable Crops/ Agricultural Production Systems	2006	On-going	College of Agriculture/ IHFSA	C.P. Laurean R.B. Badayos
3. Agricultural Research and Extension Efforts of Benguet State University: A Continuum or Independent Activities	2006 – 2008	On-going	DEEDCom, College of Agriculture/ ISRD	ML.D. Fangasan
4. Ecogeography and <i>In-situ</i> Diversity Analysis of <i>Coffea</i> spp. in Four Agro-Ecological Zones of Benguet	2006 – 2009	On-going	College of Agriculture/ IHFSA	B.A. Tad-awan J.S. Ligat J.P. Pablo
5. Animal Welfare Awareness and Practices	April 2006 – Dec 2006	On-going	CVM/ISRD	A.D. Castrence, et.al
6. Effects of the Students' Major Reasons for Taking-up their Courses to the Formation of their Self Regulatory Learning Tendencies in Mathematics	June – October 2006	On-going	College of Arts and Sciences, MPS Department/ ISRD	S.L. Oryan
7. Internet Utilization of BSU Students	June 19, 2006 – April 2007	On-going	College of Arts and Sciences, ICT Division/ISRD	M.L Dom-ogen Jr., et al
8. BSU Human Traits Survey: Pattern Distribution of Fingerprints Among Employees of Benguet State University	August 2006 – March 2007	On-going	Department of Biology, College of Arts and Sciences/ISRD	M.A. Balcita J.J. Josue
9. Assessment of Learning Style Preferences of Veterinary Students of Benguet State University	August 2006 – March 2007	On-going	College of Veterinary Medicine/ISRD	C.G. Battad A. Parcasio A. Magtoto
10. Kahusayan Sa Pakiking ng mga Mag-aaral Sa Unang Taon ng Benguet State University	August 2006 – June 2007	On-going	College of Arts and Sciences, Department of Humanities/ISRD	M.B. Sison, et.al
11. Insect Pests and Their Influence to the Productivity of Yacon (<i>Polymnia sachifolia</i>) Plants Grown in Soil with Different Amendments.	September 2006 – June 2007	On-going	College of Agriculture/ HORTI	B.S. Ligat G.P. Sabas

PROGRAM/PROJECT/ACTIVITIES	DURATION	UPDATES/STAGE (BRIEF NARRATIVE)	CENTER/INSTITUTE/ COLLEGE	RESEARCHER/ PROJECT LEADER
12. Animal Welfare Practices Among Food Animal Farmers in Benguet Province	August 2006 – December 2008	On-going	College of Veterinary Medicine/ISRD	C.S. Battad et al.
13. Factor Analysis of Faculty Evaluation Instrument			College of Arts and Sciences, MPS Department/ISRD	S.L. Oryan, et.al MPS faculty
14. Self Description and Academic Performance of BSAS and BSIT Students		On-going	MPS Department, CAS/ISRD	J.C. Borje B. Dolipas J. Ramos
15. Mathematical Patterns of Selected Cut-Flowers of La Trinidad, Benguet		On-going	MPS Department, CAS/ISRD	J. Borje B. Dolipas
16. Tracer Study of Applied Statistics Graduates (1987-2006)		On-going	MPS Department, CAS/ISRD	MA. Lubrica
17. Tracer Study of BS Information Technology Graduates		On-going	MPS Department, CAS /ISRD	D.A. Tampo
18. Promotion of Animal Welfare Status of Companion Animals of Benguet State University Community	September 2006– September 2007	On-going	College of Veterinary Medicine/ISRD	A.V. Castrence
19. Factors Affecting the Performance of BSA and BSAB Graduates of Benguet State University in the Board Examination for Professional agriculturist (An Action Research)	September 2006 – August 2007	On-going	DEEDCorn, College of Agriculture/ISRD	ML.D. Fangasan EH. Marquez
20. Pampagtuturong Tungkulin Sa Interaksyon Pangklase Sa Wika	October 2006 – June 2007	On-going	Department of Humanities, CAS/ISRD	M.Z. Palazo E.G. Dines D.S. Tomas R.C. Bataclao
21. Micro propagation; 22. An Alternative to Vegetable Seed Importation	Nov. 2004 – March 2008	On-going	STVRDC	V.D. Alejandro
23. Towards a Sustainable Semi-temperate Vegetable Production: Characterization, Genetic Conservation and Propagation of the Indigenous Vegetables of the Highlands of Cordilleras	Nov. 2004- March 2008	On-going	STVRDC	L.G. Lino
24. Participatory Evaluation and Selection of Potato Varieties for Organic Production in the Northern Philippines Highlands	Nov. 2004 – March 2008	1. The project's main activity for the last quarter is the setting up of the advanced/ promotional trials of seven selected potato entries at different organic farms in Benguet. Monitoring of planting materials continued until October. 2. The novel potato genotypes from Maine, U.S.A were also planted in November at the	STVRDC	B.A. Tadawan

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PROGRAM/PROJECT/ ACTIVITES	DURATION	UPDATES/STAGE (BRIEF NARRATIVE)	CENTER/ INSTITUTE/ COLLEGE	RESEARCHER/ PROJECT LEADER
		BSU Experimental Station at Balili. There were 15 genotypes planted.		
25. Sustainable Management of Plant Parasitic Nematodes Associated with Semi-Temperate Vegetables in the Cordillera	Nov. 2004 – March 2008	Experiments started: 1. Crop rotation as a means of managing plant parasitic nematodes (Aug. 2006- Jan, 2007) 2. Identification of Vegetable varieties that are either resistant or less susceptible to nematodes and which are sustainable for use by small-scale farmers in the Cordillera (Nov., 2006- Feb., 2007) 3. Evaluation of available organic amendments/ composts that would reduce in column levels in the soil (Dec., 2006-March 2007)	STVRDC	L. M. Villanueva
26. Balanced Fertilization Strategy for Semi-temperate Vegetables in the Highlands	Feb. 2005 – March 2008	1. Statistical analysis and interpretation of the 1 st trial on Balanced Fertilization Strategy on cabbage, potato, broccoli, bell pepper, and carrot were gathered. 2. Set up of 2 nd field trials are being implemented	STVRDC	M.M. Marquez J.G. Balaoing C.P. Laurean E.K. Mamaril A.W. Fagyan
27. Nutrient and Fertilizer Management for Greenhouse Crops	July 2006 – July 2008	1. Management of Tomato, Bell Pepper and Romaine Lettuce were already laid out and now in its first month from planting. The plants were given the same amount of nutrients through manual application since the computer needed in fertigation is not yet functional. Tomato and bell pepper plants are already in their flowering stage. Initial data gathering on agronomic parameters was done.	STVRDC	M.M. Marquez E.K. Mamaril A.W. Fagyan M.D. Pandosen
28. Mass Production and Efficacy Evaluation of Spodoptera litura Nuclear Polyhedrosis Virus for the Control of Common Cutworms	July 2006 – July 2008	On-going activities: 1. Life history of common cutworm (<i>Spodoptera litura</i> Fabr.) Researches to be conducted:	STVRDC	E.V. Cardona, Jr.
29. Towards Organic Production of Semi-Temperate Vegetables Using Biological Control Agents (BCA's) and Botanical Extract (BEs)	July 2006 – July 2008	On-going activities: 1. Verification of preliminary bioassay results to include daily measurement of inhibition zone 2. Preparation for conduct of greenhouse experiment to	STVRDC	J.S. Luis

PROGRAM/PROJECT/ ACTIVITES	DURATION	UPDATES/STAGE (BRIEF NARRATIVE)	CENTER/ INSTITUTE/ COLLEGE	RESEARCHER/ PROJECT LEADER
		measure the effect of the best BCA's on test plants inoculated with target pathogens		
			HORTI	
30. Varietal Improvement of Semi-temperate Vegetable Crops	1994-2010	Development and evaluation of snap bean cultivars for the Phi- lippine highlands. Varietal im- provement of off-season tomato	HORTI	L.L. Tandang AM. Kimeu J.O. Narciso
31. Tissue Culture Research and Development Program for Highland Crops	1995-2010	<i>In vitro</i> mass propagation of selections and recommended cultivars/ hybrids of strawberry	HORTI	V.D. Alejandro
32. Development of Market- Oriented Cropping Schemes for Vegetable Crops	1996-2007	Vegetable succession cropping schemes. Off-season vegetable cultivation	HORTI	P.B. Alipit
33. Integrated Pest Management on Selected Vegetables	1998-2010	Production and efficacy of bio- logical control agents against primary insect pests of vegeta- bles	HORTI	E.V. Cardona, Jr.
34. Strawberry Varietal Im- provement	1999-2009	Germplasm collection, hybridi- zation, and backcrossing	HORTI	D.P. Padua
35. Development and Piloting of Improved Varieties of Garden Pea	1999-2010	Hybridization, yield trials, and seed increase	HORTI	L.T. Tandang A.M. Kimeu
36. Biological Control of Phyto- phagous Mites in Selected Crops in the Cordillera	1999-2010	Field monitoring of two-spotted spider mite and its predators	HORTI	L.M. Colting
37. Management of Major Soil- Borne Diseases of Selected Highland Crops	2001-2007	Survey of plant parasitic nema- todes, crimp disease, and verti- cillium wilt associated with strawberry	HORTI	J.S. Ligat L.M. Villanueva
38. The Use of Microbial Anta- gonists in the Control of Ma- jor Diseases in Crucifers	2001-2007	Management of clubroot and black rot using bacterial anta- gonists	HORTI	L.M. Villanueva
39. Management of Leaf miner of Selected Vegetables in the Cordillera	2001-2010	Seasonal abundance of leaf- miner and its parasitoids. Mass rearing of parasitoids.	HORTI	B.S. Ligat
40. Post harvest Handling, Processing, and Product De- velopment of Temperate Vegetables	2001-2010	Minimal processing and packag- ing of fresh cuts salad vegeta- bles	HORTI	A.A. Basalong V.B. Salda
41. Stress Management in Tem- perate Vegetable Crop Culti- vation	2003-2009	Crop response to stress condi- tion. Development of stress resis- tance induction techniques	HORTI	P.B. Alipit
42. Development of Production Technologies for Benguet Lily	2005-2010	Fertilizer management. Suitable growing media establishment	HORTI	A.G. Ladilad
43. Commercialization of Dehy- drated Oyster and Shiitake Mushroom	2006-2008	Formulation of more mushroom processed products and nutri- tional analysis	HORTI	J.S. Luis
44. Fertilizer and Water Man- agement in Temperate Vege- table Crop Cultivation	2006-2010	Interaction effects of fertilizer and water on the performance of major temperate vegetables	HORTI	P.B. Alipit

PROGRAM/PROJECT/ ACTIVITES	DURATION	UPDATES/STAGE (BRIEF NARRATIVE)	CENTER/ INSTITUTE/ COLLEGE	RESEARCHER/ PROJECT LEADER
45. Soil Management and Fertilizer Studies for Arabica Coffee Production	2001-2009	1. Soil management and fertilizer studies during the rejuvenation of Arabica coffee under pine trees revealed that high yield was obtained from trees applied with 14-14-14 plus chicken manure. 2. Soil management and fertilizer studies in newly established Arabica coffee plants revealed that trees applied with goat and chicken manure had the highest yield.	IHFSA IHFSA	M.M. Marquez
46. Highland Pig Development and Conservation	2003-2007	1. Physiological data on native pigs revealed that the corpuscular volume and hemoglobin did not differ along the age groups. 2. Morphological characteristics of native pigs showed that linear body measurements taken on second parity litter at one-month-old to 12 months of age show a gradual increment of values.	IHFSA	S.B. Maddul
47. Indigenous Animal Health Practices in the Cordillera	2004-2007	1. Information campaign on the use of medicinal plants used by livestock and poultry raisers in Ifugao (400 farmers) in the treatment of fever, wound, skin diseases, parasitism and diseases of the respiratory and gastrointestinal tract.	IHFSA	C.S. Battad

Extension Services

The research and extension faculty and staff conducted technology piloting, demonstration and commercialization like production of romaine lettuce, strawberry runners, banana suckers, and agroforestry crops like coffee and passion fruit. Publication and information dissemination was done through radio broadcast, IEC materials, and publications (Table 12). Faculty and staff conducted seminar-workshops or served as resource persons/lecturer, plant clinics, community service outreach, and provided technical assistance to walk-in clients.

Table 12. List of extension activities implemented

PROGRAM	BENEFICIARIES (NUMBER AND TYPE)	LOCA- TION	DURA- TION	COLLABO- RATING AGENCY/ CENTER/ COLLEGE	PROGRAM LEADER/ PERSON IN- VOLVED	
<i>A. Technology Piloting, Demonstration and Commercialization</i>					OES	
1. Production of romaine lettuce at the BSU-Plastro Greenhouse	Farmers, students, and other stakeholders	BSU Experiment Farm, Balili	January-December 2006	Plastro, Asia Inc	J.A. Solimen F. Malabanan S.T. Gayao	
2. Strawberry Runner Production	Farmers, students, and other stakeholders	BSU Experiment Farm, Balili	January-December 2006	CHED	J.A. Solimen S.T. Gayao M. Dumaslan	
3. Banana Sucker Production	Farmers, students, and other stakeholders	BSU Experiment Farm, Balili	January-December 2006		J.A. Solimen S.T. Gayao M. Dumaslan	
4. Technology Promotion Center	Farmers, students, and other stakeholders	BSU Experiment Farm, Balili	January-December 2006	Land Bank of the Philippines	J.A. Solimen V. Salda J. Perez et. al.	
5. Participatory Technology Adoption (Project Passion fruit production using kniffin trellis, agro forestry and old coffee tree rejuvenation)	Farmers, students, and other stakeholders	Atok, Tublay, Kapangan, Sablan	January-December 2006		G.A. Payangdo	
<i>B. Technology Publication and Information</i>						
6. BSU on the Air	5,000+ Farmers, students, and other stakeholders	DZWT, Baguio	January-December 2006	PIUC	J.G. Dati (Anchorperson)	
7. IEC materials	Farmers, students, and other stakeholders	OES, BSU	January-December 2006	All colleges and institutes		
8. Publication of Rangtay newsletter	Farmers, students and other stakeholders	OES, BSU	January-December 2006	Publications Office	J. A. Solimen M. Duldulao L.A.D. Lardo W.L. Marquez G.B. Jacalan	
<i>C. Training and Outreach</i>						
9. Technical Assistance Services	TABACK Farmers Association	Philex Mines	2005-2008		S.B. Maddul C.P. Laurean	
	Amlimay Farmers Association	Amlimay, Buguias			J.A. Solimen MK.T.Dagupen	
	Masala-Madaymen Farmers Association	Madaymen, Kibungan	January-May 2006			
	Kalawitan Agro-forest Integrated Livelihood and Information Group Inc (KAFILIG)	Sabangan, Mt. Province	January-December 2006			
	Abra Institute of Science and Technology (ASSIST)	ASIST, Abra	August 5-6, 2006			
10. Walk-in clients, briefing/touring of visitors	An estimated 300+ mostly farmers, technicians and students walk in clienteles		January-December 2006	All colleges and institutes	All ODE personnel	

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PROGRAM	BENEFICIARIES (NUMBER AND TYPE)	LOCA- TION	DURA- TION	COLLABO- RATING AGENCY/ CENTER/ COLLEGE	PROGRAM LEADER/ PERSON IN- VOLVED
	and 1,000+ visitors toured the different projects.				
<i>D. College-based extension activities/OES supported extension offices</i>					
11. P6 in the City (Physics in the City)			January 13, 2006	College of Arts and Sciences	MPS Faculty
12. Lectures in mathematics		UNP, Vigan	January 28, 2006	CAS	M. Lubrica
13. San Layad Ta	107 participants	CORDET's Weavers Forum	February 22, 2006	CAS	Humanities Faculty
14. Seminar-workshop in STATA	11 participants from the different SUCs	BSU	May 15-17, 2006	CAS	MPS Faculty
15. Computer Literacy Training	5 barangay officials of La Trinidad	BSU	May 22-24, 2006	CAS	MPS Faculty
16. Lecture-forum on Campus Journalism	37 students and 5 advisers	St. Francis School, Longlong, Puguis	August 5, 12 & Sept 9, 2006	CAS	Humanities and Social Science Department
17. Integrated Training Program for the PNP Non- Uniformed Personnel	70 first level PNP non- uniformed personnel	PRO- Cordillera Log Cabin, Camp Bado Dangwa	August 30, 31 & September 1	CAS	Humanities Department
18. Lecture-forum on Campus Journalism	24 students	Baguio City Science Foundation	September 16 & 23, 2006	CAS	Humanities and Social Science Department
19. Continuing education for High School Science III Teachers: First Lecture Series in Chemistry	15 High School Science III teachers	Mankayan National High School	November 9 – 10, 2006	CAS	Chemistry Department
20. Seminar-workshop in Mathematics and Science	165 secondary mathematics and physics teachers	CAS Annex, BSU	November 18 & 25, 2006	CAS	Chemistry Department MPS Faculty
21. Copies of books "Reading Readiness" & "Karagdagang Babasahin sa Wika at Panitikan"	Guinzadan Elementary School, Tapapan Elementary School and Banao Elementary School	Bauko, Mt. Province	December 2006	CAS	N. Mayos et al.
22. Sweet potato Processing		Sagada, Mt. Prov.	Jan. 19, 2006	NPRCRTC	E.T. Botangen
23. PRO-Cordillera Project on Yacon: Yacon Propagation Seminar		Lomon, Kapangan	Jan. 19, 2006	LGU- Kapangan- NPRCRTC	C.G. Kiswa

PROGRAM	BENEFICIARIES (NUMBER AND TYPE)	LOCA- TION	DURA- TION	COLLABO- RATING AGENCY/ CENTER/ COLLEGE	PROGRAM LEADER/ PERSON IN- VOLVED
24. Potato Seed Production		Sinto, Bauko	Jan. 31, 2006	NPRCRTC	P.A. Dalang
25. Composting		BSU	Jan 23-24, 2006	BSU, Soils NPRCRTC NPRCRTC	R.S. Baustista A.A. Wagsey
26. Rootcrops Food Products Processing/Nutrient Content of Root crops		DZWT	March, 2006	NPRCRTC	E.T Botangen D.T. Meldoz
27. Yacon Propagation as a Livelihood Project for PNP Personnel in Cordillera	PNP	Camp Dangwa	March 9, 2006	PNP	C.G. Kiswa
28. Wine and Juice Processing		Tublay	March 16, 2006	DA-CAR	E.T. Botangen
29. Yacon Propagation Seminar for CRCCM		DILG, Baguio City	March 30, 2006	DILG, Baguio City	I.C. Gonzales C.G. Kiswa
30. Yacon Production Seminar for Farmers of Tinok, Ifugao		Tinoc, Ifugao	May 18, 2006	LGU-Ifugao	P.A. Dalang
31. Ubi Production, Processing and Marketing		San Idefonso, Bulacan	July 25, 2006	Bulacan Agricultural College	V.B. Salda
32. Ube Livelihood Production Training		Lubuagan, Kalinga	Sept. 12- 13,2006	Philippine Army, LGU- Lubuagan, Kalinga	J.G. Dati G.S. Backian
33. Root crop production practices		Philex mines	Sept 17- 18,2006	BSU Extension Service, Philex Mines association	I.C. Gonzales E.T. Botangen
34. Sweet potato processing training		Luna, Apayao	Oct. 11-13, 2006	LGU - Apayao	E.T. Botangen V.B. Salda L.K. Mama-o
35. BARP- Orientation Seminar of Senior Citizens		Baguio City	Dec. 19, 2006	BARP Found.	P. A. Dalang
36. Technology demonstration farm			Jan-June		D.T. Meldoz C.B. Pulinney Support staff
37. Urban Garden Showcase			Jan-June	NPRCRTC	D.T. Meldoz I.C. Gonzales C.B. Pulinney
38. Rootcrops Museum/Products Showcase				NPRCRTC	D.T. Meldoz E.T. Botangen
39. Establishment of Rootcrop Database				NPRCRTC	Technical Staff
40. Dispersal of Root crop planting materials			1999-2007	NPRCRTC	I.C. Gonzales D. Simongo I. Awal

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PROGRAM	BENEFICIARIES (NUMBER AND TYPE)	LOCA- TION	DURA- TION	COLLABO- RATING AGENCY/ CENTER/ COLLEGE	PROGRAM LEADER/ PERSON IN- VOLVED
					F. Balog-as
41. Disease Clinic Services				NPRCRTC	J.C. Perez G.S. Backian T.D. Masangkay
42. Tissue Culture Services				NPRCRTC STVRDC	C.G. Kiswa
43. Plant Disease Diagnosis	21 (Farmers and LGU's)	Abatan, Buguias	February 2, 2006	DA-LGU, STVRDC	A.L. Nagpala
44. "How to Conduct Field Experiment" and "Club root: Knowing Your Enemy"	66 (Farmers and LGU's)	BSU-Loo Conferenc e Room	February 10, 2006	BSU-Loo, PIUC- STVRDC	B.S. Tad-awan
45. "How to Conduct Field Experiment" and "Club root: Knowing Your Enemy"	72 (Farmers and LGU's)	Sayangan, Atok	March 15, 2006	STVRDC	B.S. Tad-awan
46. Plant Identification	36 (Students)	BSU-CAS	June- December, 2006	BSU-CAS	L.G. Lirio
47. Use of Beneficial Microorganisms for the Management of Selected Diseases	18 (Technicians, Training Specialists, LGU's)	R&E Complex	June 16, 2006	STVRDC	L.M. Villanueva
48. Disease/Pest Clinic	150 (Students, Farmers, Employees, LGU's)	BSU Open Gym	June 19- 25, 2006	BSU- STVRDC	L.M. Villanueva B.S. Tad-awan A.L. Nagpala E.V. Cardona, Jr.
49. Disease Diagnosis	7 (Students, Farmers, LGU's)	BSU Biocon Lab	2004 (on-going)	BSU R&E IHFSA	L.M. Villanueva
50. Arabica Coffee Seminar	TUBENCOGA Farmers	Tuba, Benguet	One day	IHFSA with DAR,DA & TUBENCOGA	IHFSA-DA, Tuba A. A. Basalong B.Ligat A.T. Botengan
51. Arabica Coffee Seminar	Kapangan, Benguet	One day	IHFSA, DA- Kapangan		IHFSA-DA, A. A. Basalong, et al.
52. Diadegma Dispersal	Farmers – 9	Benguet	January- May, 2006	HORTI	E. Cardona, Jr.
53. Chrysanthemum Production Technologies	Farmers – 25	Daclan, Tublay, Benguet	April 1, 2006		A. Ladilad (lecturer)
54. Biological Pest Management Course	Technicians, farmers – 30	ATI-RTC- CAR	April 20-21, 2006	HORTI	B. Ligat (resource person)
55. Leafminer and its Parasitoids	Technicians – 3	BSU	November 9, 2006	HORTI	B. Ligat

PROGRAM	BENEFICIARIES (NUMBER AND TYPE)	LOCA- TION	DURA- TION	COLLABO- RATING AGENCY/ CENTER/ COLLEGE	PROGRAM LEADER/ PERSON IN- VOLVED
COLLEGE OF AGRICULTURE					
56. Strengthening the capacity of identified cooperative through an adopt a cooperative strategy	Cooperative members	Dalipey, Bakun	May 19, 2006		E.B. Cungihan J. A. Sim F. B. Landacan
57. As resource speaker during the seminar on organic farming and soil fertility management.	ASIST students	ASSIST, Abra	August 5-6, 2006	ASIST	J.B. Balaoing A. Fagyan C. Lagman
58. Soil sampling and STK analysis					
CVM					
59. As Resource Speakers on the BSU On Air & On Agri-TV Show Of RPN 9	All listeners of BSU on the Air Program and Agri-TV Show of RPN 9.		January – December 2006	College of Veterinary Medicine	A.V. Castrence J.Y. Pol-as C.C. Carolino, Jr. R.C. Diego J.A. Dianso
60. Veterinary Activities	Vaccinated, dewormed and castrated 255 dogs	Beckel & Bineng, La Trinidad; Naguey, Atok, Asin, Tuba, and Kibungan	February – April 2006		J. Runas J.A. Dianso A.V. Castrence and student Rotaracts
	Dewormed, hoof trimmed and injected with multivitamins 250 Breeder Boers.	Itogon, Benguet	June 23 & 25, 2006		All senior Veterinary Clinicians
	Treated 242 goats of various illnesses	Itogon, Benguet	June 23 & 25, 2006		All senior Veterinary Clinicians
	Pregnancy diagnosis of 5 cows dewormed and injected with multivitamins 15 Breeder boers	Atok and Tublay, Benguet	July, 2006	Ruminant Association of the United Methodist Church	All senior Veterinary Clinicians
61. Seminar-Workshop on Instructional Design and Classroom Management	85 teachers from Baguio and Benguet	CTE Function Hall, BSU	October 21, 2006	Graduate School	
62. Campus Journalism Seminar	84 students & 17 staff members of the Blue Courier newsletter	CTE Function Hall	August 2006	College Of Teacher Education	
63. Seminar-Workshop on Planning and Developing the Pre-School Curriculum	26 pre-school and primary school teachers	Loakan Proper, Baguio City	November 3, 2006	College Of Teacher Education	
64. Seminar-Workshop on Empowering People and Communities through Sustainable Programs and	38 extension and NSTP coordinators	Nena's Garden & Rest, Dagupan City	November 17, 2006	CTE	P.A. Lubrica I.G. Parcasio M. Alvaro A. Cawat

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PROGRAM	BENEFICIARIES (NUMBER AND TYPE)	LOCATION	DURATION	COLLABORATING AGENCY/ CENTER/ COLLEGE	PROGRAM LEADER/ PERSON INVOLVED
Projects					R. Pawid
				ISRD	
65. Strengthening Institute of Social Research and Development			1999-2009	Vlaamse Interuniversitaire Raad (VLIR)	
66. 1st Cordillera Organic Agriculture Congress			January 13-14, 2006	Inter-agency (BSU, DA, DTI CDA, BBCCI, CBB NAFC, etc)	R. Colting (Chairperson) M. Dagupen (Secretariat) ISRD (Support staff)
67. Forum on Reproductive Health Care	College Students Faculty and Staff	BSU	March 10, 2006	ISRD, GAD Committee	College of Nursing
68. Simplified Farm Records Keeping	Graduate School Students Faculty and Staff	BSU	March 18, 2006	ISRD, Grad School	MK. T. Dagupen
69. Forum on Computer Related Illnesses	College Students Faculty and Staff	BSU	March 26, 2006	ISRD, GAD Committee	MK. T. Dagupen
70. Building Relationships: Adding Value to the Workplace	Graduate School Students Faculty and Staff	BSU	September 28, 2006	ISRD, Grad School	MK. T. Dagupen
71. 1st CAR Regional Congress of GAD Focal Points			Nov. 08-09, 2006		M. Dagupen ISRD Staff
72. Proper Pesticide Management and Introduction to Beekeeping Seminar	Farmers, Beekeepers and Local Government Unit of Kapangan	Dap-ayan Hall, Lomon Kapangan, Benguet	December 27, 2006	ISRD, VLIR-PIUC, SLU	
73. Seminar on Proper Use of Pesticides and Introduction to Beekeeping			Dec. 27, 2006		M. Dagupen B.S. Ligat E. Benavidez R. Deppas, etc.
74. Outreach Programs in Coordination with Benguet General Hospital Choral Group	Residents	Badeo & Dalipey, Kibungan, and Tabu, Itogon, Benguet	February 17 – 19, 2006 March 24, May 12-14,	College of Nursing	V. G. Panagan Jr.
75. Assessment of 3 potential sites for micro hydro in Ilocos Sur and Lusod, Kabayan	Ilocos Sur, Lusod. Kabayan	Ilocos Sur Benguet	August 8-10, 2006/ April, 2007	College of Engineering and Applied Technology	Engr. Molintas et al.
76. Provision of assistance on Solar home system project	Philex Mining Corporation (Pacdal operations)	BSU	October 16, 2006	BSU – ANEC	E. M. Molintas
77. Seminar-Workshop on Research Proposal Preparation for Bio-Energy Program (as a resource person)	Bio-energy researchers	BSU	Sept 12, 2006	CA- Agronomy	Belinda A. Tadawan

Training Services

There were around 29 training activities that were conducted in coordination with the training services unit (Table 14) and 10 college-based trainings (Table 13). Most of which were crop production trainings on coffee, strawberry with natural or organic farming practices, mushroom production, and entrepreneurship trainings. The college-based trainings were more on information dissemination in the different lines of specializations such as cooperatives, swine raising and health education and other skills.

Table 13. List of training activities implemented

Program	Beneficiaries (Number and Type)	Location	Duration	Collaborating Agency/ Center/ College	Program Leader/ Person Involved
1. Orientation Training on Young Farmers Program (YFP) for BSU Graduates	100 graduating students and undergraduate students of BSU regarding Young Farmers Program by Senator Ramon B. Magsaysay Sr.	Strawberry Hall, BSU	March 30-31, 2006	COCAFM DA-BAR OTS BSU	J.S. Luis
2. Training on Coffee Production for Philex Mines Beneficiaries	Philex Mines Beneficiaries	Benguet State University	April 6-7, 2006	ORS OES	V.L. Macanes A.A. Basalong
3. Coffee Production Training	12 farmer participants from Philex funded by Philex Mining Corporation	BSU Training Hall, Bektey, Puguis, Longlong La Trinidad, Benguet	April 6-7, 2006	OTS	J. A. Solimen C.P. Laurean S.B. Maddul
4. Strawberry Production Training	Students- 2 Marawi State University	BSU	April 17-20, 2006	HORTI	D. Padua
5. Team Building Seminar for Philex Mines Beneficiaries	Philex Mines Beneficiaries	Camp 3, Tuba, Benguet	April 18, 2006	ORS OES	C.P. Laurean J.A. Solimen
6. Natural Farming Systems	11 farmer participants from Mt. Province, La Trinidad, Itogon, Atok, and Buguias Benguet, Nueva Vizcaya, Pangasinan, and Baguio City	BSU Training Hall, Bektey, Puguis, Longlong La Trinidad, Benguet	May 29-30, 2006	OTS	OTS E. Tinoy-an (main lecturer) J.G. Balaoing (lecturer from BSU)
7. Echo-Orientation Training on Young Farmers Program for Local 3. Government Unit - La Trinidad	unemployed/ underemployed graduate in La Trinidad who are prospective beneficiaries of YFP	Chrysanthemum Hall, BSU	June 6-7, 2006	LGU-La Trinidad College of Agriculture OTS	F. Ticbaen (MAO-LGU, La Trinidad) J.S. Luis
8. Hands – on Training in the Use of Beneficial Organisms in the Management of Selected Crop Diseases in CAR	Technicians - 13	BSU	June 16, 2006	HORTI	L.M. Villanueva
9. Echo Seminar on Resource Generation	BSU Researchers	NTC-ATI	June 22, 2006	ORS	C.P. Laurean MK. T. Dagupen
10. Forum on Opportunities for	Faculty and Staff of	Strawberry Hall,	June 29,	ORS	C.P. Laurean

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Program	Beneficiaries (Number and Type)	Location	Duration	Collaborat- ing Agency/ Center/ College	Program Lead- er/ Person In- volved
Partnership and Linkages	BSU	BSU, La Trini- dad, Benguet	2006		
11. Natural Farming System	8 farmer participants from Baguio City, Antipolo City and Pasig City	BSU Training Hall, Bektey, Puguis, Longlong La Trinidad, Benguet	July 3-4, 2006	OTS	OTS
12. Natural Farming Systems	4 farmer participants from Nueva Vizcaya, La Union and Baguio City	BSU Training Hall, Bektey, Puguis, Longlong La Trinidad, Benguet	August 30- 31, 2006	OTS	OTS
13. Growing Bag Cultivation of Oyster Mushrooms	12 participants from La Trinidad, Buguias, Atok, Bokod, Baguio City and Dagupan City	BSU Training Hall, Bektey, Puguis, Longlong La Trinidad, Benguet	September 5-6, 2006	OTS	J. S. Luis N. Nuñez J. Cabasoy
14. Bio-energy Seminar- Workshop	Researchers from different colleges	Chrysanthemum Hall, BSU, La Trinidad	September 12, 2006	CA ORS	
15. Log Cultivation of Shiitake	22 participants from Bakun, Buguias, Tublay, La Trinidad, Kibungan, Bokod, Tuba, Atok Benguet; Baguio City, and Daugpan City	BSU Training Hall, Bektey, Puguis, Longlong La Trinidad, Benguet	September 13-14, 2006	OTS	J. S. Luis J. Cabasoy
16. Growing Bag Cultivation of Oyster Mushrooms for Tublay LGU trainees	A seminar conducted at Tublay that was funded by LGU- Tublay and the OTS for technical expertise	Tublay	September 15-16, 2006	OTS	LGU-Tublay J. S. Luis N. Nuñez
17. Bio-energy Seminar- Workshop	Researchers from different colleges	Chrysanthemum Hall, R & E Complex, BSU, La Trinidad	September 19, 2006	CA ORS	S.B. Maddul
18. DOST-TAPI PROGRAM	100 participants from undergraduate stu- dents of BSU	Gladiola Hall, Benguet State University	September 21, 2006	OTS	OTS
19. Intellectual Property Rights Seminar	First Year to Fourth High School Students	Secondary La- boratory High School	September 22, 2006	IPRO	C.P. Laurean
20. Growing Bag Cultivation of Oyster Mushrooms	21 participants from La Trinidad, Bokod, Itogon, Tuba, Tublay Benguet, Mountain Province, Baguio City, and Mountain Province	BSU Training Hall, Bektey, Puguis, Longlong La Trinidad, Benguet	October 3-5, 2006	OTS	J. S. Luis N. Nuñez and J. Cabasoy
21. Log Cultivation of Shiitake	30 participants from La Trinidad, Tuba, Atok, Kibungan, Tub- lay Benguet, Baguio	BSU Training Hall, Bektey, Puguis, Longlong La Trinidad,	October 10- 11, 2006	OTS	J.S. Luis J. Cabasoy

Program	Beneficiaries (Number and Type)	Location	Duration	Collaborating Agency/Center/College	Program Leader/Person Involved
	City, and Ifugao	Benguet			
22. Intellectual Property Rights Seminar	College of Agriculture Faculty	HARRDEC, BSU, La Trinidad, Benguet	October 25, 2006	IPRO	C. P. Laurean
23. Intellectual Property Rights Seminar	College of Arts and Sciences Faculty	Little Theater, CAS, BSU	October 26, 2006	IPRO	C.P. Laurean
24. Training on the Identification of Commodities, Involvement of Farmers, and Trading of Vegetables	Technicians, Traders – 20	Pico, La Trinidad, Benguet (Benguet Cooperative)	November 6, 2006	HORTI	V. Salda
25. Training on Organic Agriculture	50 BSU Personnel (laborers and farm workers), farmers, students	Chrysanthemum Hall, BSU	November 9-10, 2006	OES	J.A. Solimen
26. Rewarding the Upland Poor for Environmental Services (RUPES) they provide training	A training sponsored by RUPES with BSU as partner for technical expertise	NIA Conference Hall	November 20-22, 2006	RUPES BSU	J. S. Luis V.L. Macanes (lecturer from BSU)
27. Orientation Course on Entrepreneurship for Young Farmers Program Batch 6	26 Young Farmer Entrepreneurs	BSU Training Hall, Bektey, Puguis, Longlong La Trinidad, Benguet	November 12-25, 2006	COCAFm thru Sen. Ramon B. Magsaysay, Jr., NAFC	J. S. Luis
28. Colored Calla lily Production	14 participants from various municipalities of Benguet Province	Chrysanthemum Hall, R & E Complex, BSU	November 29, 2006	OTS	F. Hermano (as sole lecturer)
29. Orientation seminar on Production and Commercial Viability of Oyster Mushroom and Production Processing of Yacon	This seminar was funded by the BARP Foundation and BSU for technical expertise	BSU Training Hall, Bektey, Puguis, Longlong La Trinidad, Benguet	December 15, 2006	OTS	J.S. Luis P. Dalang (lecturer)

Table. 14. Other College-based training activities conducted.

PROGRAM	BENEFICIARIES (NUMBER AND TYPE)	LOCATION	DURATION	COLLABORATING AGENCY/CENTER/INSTITUTE/COLLEGE
1. Bio-energy Seminar-Workshop	Researchers from different colleges	Chrysanthemum Hall, R & E Complex, BSU	September 12, 2006	College of Agriculture and Office of the Director for Research Services
2. Seminar on Cooperatives	Agribusiness and Ag Econ students	BSU, La Trinidad, Benguet	January 2006	Dept of Ag Econ & Agribus Mgt, CA
3. Seminar on Swine Raising	Members of the Baguio-Benguet Swine Raisers Association, Inc	Baguio City	January 2006 February 2006	Dept of Animal Science Myrna B. Walsiyen
4. Seminar on Logo Designing	Agribusiness and Ag Econ students	BSU, La Trinidad, Benguet	March 2006	Dept of Ag Econ & Agribus Mgt.
5. Seminar on Vision, Mission, Goal Formulation	Agribusiness and Ag Econ students	BSU, La Trinidad, Benguet	June 2006	Dept of Ag Econ & Agribus Mgt.
6. Desktop Publishing	40 BSDC students	BSU, La Trinidad, Benguet	Sept 15, 2006	Dept of Extension Education Marife D. Carpio

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PROGRAM	BENEFICIARIES (NUMBER AND TYPE)	LOCATION	DURATION	COLLABORATING AGENCY/CENTER/ INSTITUTE/COLLEGE
7. Orientation course on Entrepreneurship for Young Farmers Program	Batch 6 – 26 Benguet (CAR), Region I and Region II Young Farmer Entrepreneurs	BSU	Nov 12-25, 2006	Dept of Plant Pathology, Department of Horticulture Janet S. Luis, Silvestre L. Kudan
8. Health Education and Advocacy	Fianza Memorial National High School	Dalupirip, Itogon, Benguet	March 16, 2006	Fianza Memorial National High School – Health Services/ College of Nursing-V, Panagan, Jr.
	Lorma Colleges – Level IV Student Nurses (600 students)	San Fernando, La Union	July, 2006	Lorma Colleges/College of Nursing-V Panagan Jr.
	Saint Louis School – Antamok (70 students)	Ucab, Itogon, Benguet	August 26, 2006	PMT Unit/ College of Nursing V Panagan, Jr.
	Level IV student Nurses of Lyceum of Northern Luzon (60 students)	Urdaneta City, Pangasinan	September 17, 2006	Lyceum of Northern Luzon/ College of Nursing- V. Panagan, Jr.
9. Seminar on Botika Binhi	Lubo Women's Association	Sayangan, Lubo, Kibungan	September 22 – 24, 2006	Botika Binhi, LGU/ College of Nursing- V. Panagan, Jr.
10. Seminar-Workshop on Intellectual Property Rights	459 High School students, 13 Student Teachers	CTE Function Hall	1 day	College of Teacher Education/ Office of the Director for Research (BSU)

Publications

Faculty and research staffs continued to publish their research outputs in refereed scientific journals. At least 49 articles were published in the national level and four (4) in the international level. The University provided monetary incentives to faculty and staff with publications.

There were six (6) books (Table 15) and several research articles and abstracts that were published in research journals, proceedings and newsletters by the faculty, researchers and staff (Table 15a).

Table 15. List of local university publications

Title	ISBN No.	Author
Books Copyrighted		
BSU Research Journal	0117-5297	Various
90 Ways of Cooking Chayote	978-971-0330-74-4	J. Avila, L. Balaoing, N. Banania
Ethno Food Technologies of the Cordillera	78-971-0330-76-8	J. Avila & L. Balaoing
Guide on Citrus Production Management & Technology	78-971-0330-75-1	A. Tipayno
Strawberry Production Management & Technology	978-971-0330-77-5	F. Hermano Sr.
Growing Exotic Temperate Cutflowers	978-971-0330-78-2	F. Hermano Sr.

Table 15a. List of articles published

ARTICLE	NAME/TYPE OF PUBLICATION	UNIT CONCERNED
Consumer Behavior towards Strawberries in the Filipino Context	Journal of International Consumer Marketing, May 2, 2006	R. Januszewska, MK. Dagupen, J. Viaene, D. Tagarino, D. Padua/ISRD
Disease Management in Chrysanthemum	Philippine Recommends for Chrysanthemum	College of Agriculture, Luciana M. Villanueva
Response of two carrot cultivars to varying levels of	Journal of Tropical Agriculture	College of Agriculture

ARTICLE	NAME/TYPE OF PUBLICATION	UNIT CONCERNED
root knot nematode, <i>Meloidogyne hapla</i> inoculum		M.B. Abuan and Luciana M. Villanueva
Indigenous Semi-temperate Vegetables of the Cordillera	Book	College of Arts and Science/STVRDC
Biology: the Wonders of Life	Textbook	College of Arts and Science, Biology Dept.
CHET Quarterly, Vol. VIII No. 1 June – September 2006	Newsletter	CHET, E. P. Belino (Adviser)
Students' and teachers' endorsement of various environmental education topics for inclusion in science lessons: A Rash analysis	Proceedings of the 6 th Annual conventions of PSSSN, Inc. (ISSN 1655-3160)	College of Arts and Sciences Joel V. Lubrica
A low-cost loop the loop apparatus.	Philippine Physics Journal (ISSN 0117-150X)	College of Arts and Sciences Joel V. Lubrica
Author Index : BSU Soil Science Research Information Compendium (BSUSSRIC)	Compendium (ISSN 1656-3395)	Graduate School Tessie M. Merestela
BNF Technology-Need Assessment on Beans in Some Selected Municipalities of Mt. Province	Proceedings of the 9 th Philippine Society of Soil Science and Technology (PSSST), Inc. Abstract of Article	Graduate School DY Fomeg-as, TM Merestela, JG Balaoing and MLD Fang-asan
Publication of Rangtay newsletter – January to December, 2006	Newsletter	Publications Office
BSU 2006 Annual Report		Planning Office

Upgrading of Research and Extension and Training Facilities

In order to have excellent research, extension and training services of the university, upgrading of its facilities were done like repairs of greenhouses/nurseries, laboratories, conference and offices were done (Table 17).

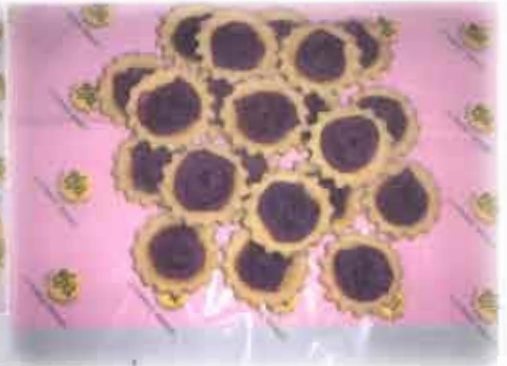
Table 17. List of R & E-based facilities upgraded/acquired in 2006

Name of Facility/ Specific Upgrading Introduced	Purpose	Source of Fund	Center/Institute/ College Concerned
Installation of One Unit Steel Gate at the Diadagma Rearing House	To prevent private vehicles parking day and night near research areas	BSU	Office of Research Services (ORS)
Improvement of the PAGASA Building	For field office of personnel	BSU	ORS
Installation of rearing cabinets at the Predator Mites Rearing House	To provide rearing cabinets for the multiplication of predator mites	BSU	ORS
BSU-CHED Greenhouse	For strawberry runner production	CHED	ODE
Strawberry Tissue Culture Laboratory	For tissue culture of strawberry	BSU	ODE
BSU-KOICA Greenhouse Renovation	For demonstration	KOICA	ODE/HARRDEC
Construction of Bodega and Water Tank Stand	For demonstration		ODE
Gate and ground filling of entrance pathway		GAA	NPRCRTC
Improvement of conference halls	Trainings and seminars		NPRCRTC
Greenhouse repair at Bektey, Ampasit and Swamp area.	for multiplication of seeds for Varietal evaluation and other research activities	GAA/STF	NPRCRTC
Construction of new Soil sterilization chamber			NPRCRTC
Repair of laboratory	for post harvest and processing	STF	NPRCRTC
Construction of 1 Unit Nursery	For the production of planting materials	PIUC	STVRDC
Improvement of pigpens, laboratory room and access road of TANGERE project		STF	TANGERE
Repair of vegetable, ornamental, and fruit crop greenhouses and mite rearing house	Research and nurseries	BSU	HORTI

Production



New products developed at the Food Processing Center



Bakery Products



Swamp production and marketing area



Mushroom project



Vegetable production under Screenhouse



Egg Production Project



Bakery Project

Production

Business Affairs

The University Business Affairs Division was tasked to oversee the different business projects, and generate funds in support of instruction, production, research and extension functions of the university and provide livelihood opportunities for its various stakeholders through the commercialization of matured technologies generated and adopted by the university.

There are two types of projects that were in place – The Agri-based (Fund 161) and non-agri-based projects (Fund 163). This different project serves as laboratory for students, demo fields and a show window of technologies generated.

For 2006, priority concern was to strengthen the record keeping of the different projects to be able to effectively monitor their performance. Record keeping was centralized and consolidated at the UBA office. Through dedication of the different managers and monitoring of the UBA office, significant improvements were achieved in the different projects.

Highlights of Accomplishments of IGPs

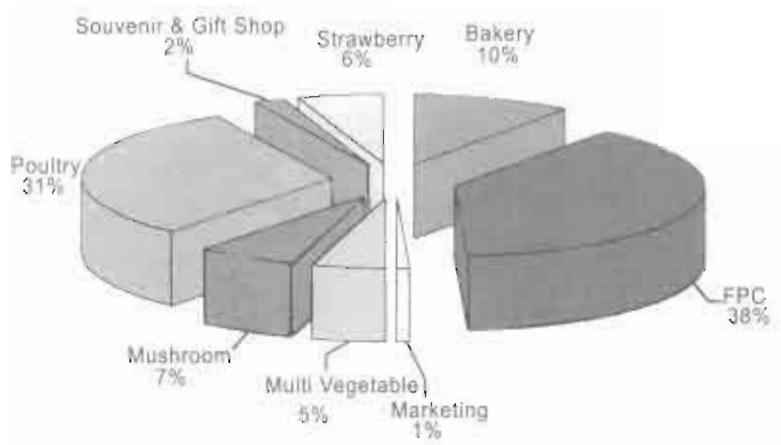
- Installation of individual sub meters of stall owners at the entrepreneurship center and other surrounding stalls.
- Collection of 75% unpaid rental and credits as of December 31, 2006
- Initiated the water treatment system at the strawberry fields for a safe and environment friendly water for irrigating strawberry and vegetable.
- Increased the rate of monthly rental for stall owners from 350.00 Php. per month to 500.00 Php. per month.
- Renewal of MOA for Sariing Sikap, Farmer Cooperators, Entrepreneurship Center, Dry Goods Center, Orchidarium and other stalls.

Contributions of IGPs to Fund Generation

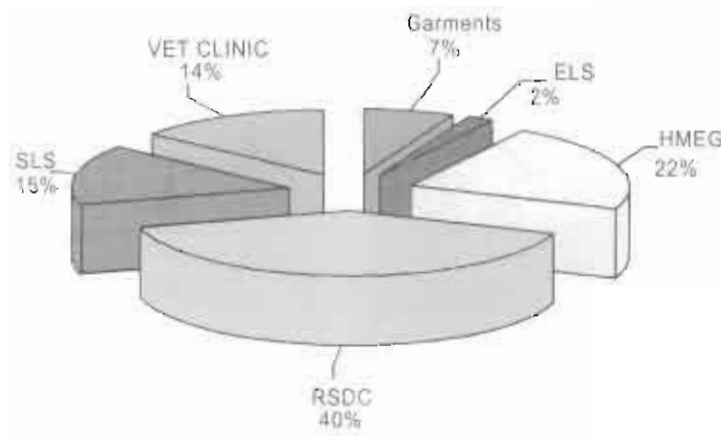
The year 2006 showed a significant improvement in the performance of the different projects. There is an increase of income by Php3, 146,552.84 from Php1, 271,969.5 in 2005 to Php4, 418,492.34 in 2006 or 347% increase from 2005. This increase was due to the determination of the different project managers to increase their production and minimize their expenses.

The following figure shows that under Fund 161, the two major contributors to fund generation are: Food Processing Center (38%) and Poultry (eggs) (31%). Under Fund 163, the major contributors are: RSDC Canteen (40%), and the Home Mgmt Guestel, (22%).

Contribution to Total Net Operating Income (161)



Contribution to Total Operating Income (163)



Administration



Completed fence at Km 5



Inspection of the completed connection of the R & E Building



Dr. Colting with the M & E team inspecting the completed tennis court



Inspection of the repaired riprap at the Biodiversity Project in Ampasit



Inspection of the laboratory house and extended pigpen at the Biodiversity Project in Ampasit



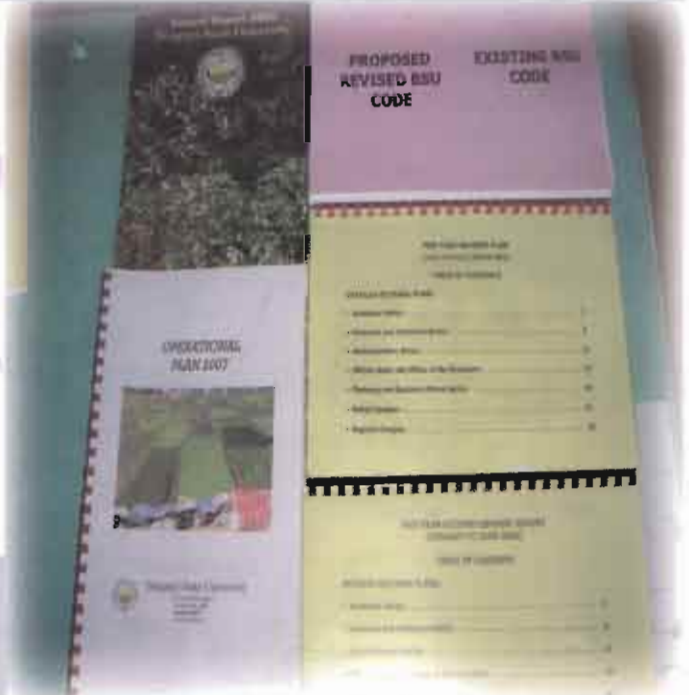
Land Use Planning Workshop of the Administrative Council



Workshop on project proposal critiquing by the International Relations Team Members



BSU represented by the Planning Director in the La Trinidad Municipal Planning Workshop



BSU hosted the 2006 Benguet Adivay



BSU Glee Club performing during the Adivay festival

General Administration

The BSU Board of Regents

In 2006, the Board of Regents had a total of four meetings, all held in CHED, Manila. The Board Executive Finance Committee chaired by Regent Juan B. Ngalob met periodically to discuss matters related to finance and management. Between Board meetings referenda were passed. These were on matters needing the Board's immediate action one travels, graduates, and appointments. These were to be confirmed during a Board meeting.

The meetings were presided by Hon. Carlito S. Puno, Chair of the CHED, and also Chair of the University's Governing Board for one year, December 2005-December 2006.

The new members of the Board, who took their oath of office in 2006 were: Student Regent – Mr. Jonathan Liglgen, Supreme Student Government President, and Alumni Regent Jesson Y. Delamen, BSU Alumni Association President.

In his discussion with the Board, Hon. Puno announced bilateral relationships with Universities abroad particularly South East Asia. He also underscored the commission's trusts, which is on faculty development.

Summary/highlights of the Board's Actions

In the first quarter meeting, the Board approved the Internal Operating Budget (IOB) for 2006.

For the year in review, the Board has approved personnel matters like travels, scholarships, secondments and appointments (mostly contractual).

There were seven (7) Memoranda of Understanding, which were approved, and one Memorandum of Cooperation Agreement (MOCA). All were on linkages between BSU and Universities/Schools abroad.

On the other hand, there were 16 Memorandum of Agreements approved by the Board. These were on research, extension, and instruction. Contract of Affiliations between BSU with local agencies were likewise approved. On policy, the Board approved the giving of allowance (P300.00/mo) to the members of the University Band.

Along research and extension, the policies on Intellectual Property Rights (IPR) were approved. Related to IPR, there were two (2) Confidentiality Agreements approved. This was between concerned BSU personnel and PCARRD. The commodities involved were on Shiitake Mushroom Bagging Technology and Use of Beneficial Organism for Management of Selected Disease and Pest of Vegetables and Ornamentals in the Highlands.

On land matters, the Board recommended for the assistance of the Office of Solicitor General.

For infrastructure, there were six (6) Owner Contractor Agreements approved, and one on Local Area Network cabling. There was on contract of lease approved. This was on the use of the first floor of the Gladiola Center as a fast food center.

The incentives for IGP personnel was discussed in the Board in two Board meetings, further refinements were requested.

For governance, for the President's protection, the Board deemed it appropriate to rescind previous authority given to the President particularly on appointments and infrastructure.

Human Resource Profile

For the year 2006, there were a total of 718 regular plantilla positions assigned in the three campuses: main campus, 599; Bokod Campus, 50; Buguias Campus, 69 (Table 16). Likewise, there were 396 teaching personnel and 320 non-teaching personnel. Some were hired as contractuels (40), substitutes (9), and through job orders (48) (Table 17).

In the main campus, 318 are faculty members and 274 are non-teaching staff. Among the faculty members, there are 155 instructors, 124 assistant and associate professors, 38 professors and at least 1 college professor. They are distributed to the different colleges and institutes, mostly in the College of Arts and Sciences, 25%; College of Teacher Education, 24% and College of Agriculture, 21%.

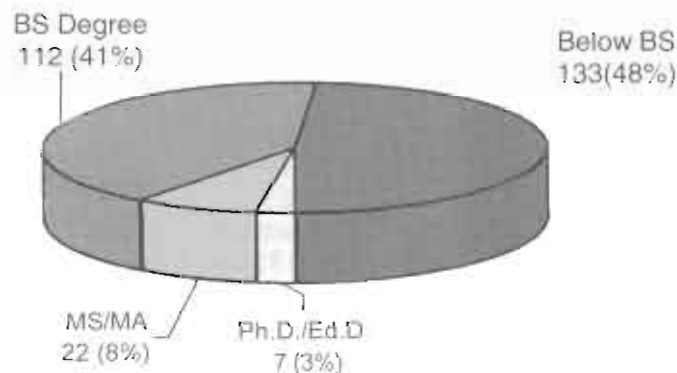
The educational profile of the University faculty and staff shows that at least 27% are doctoral degree holders and 49% are master's degree holders. The others, 32% are still pursuing their graduates' degrees (Table 17). For the non-teaching personnel, at least 3% are doctoral degree holders, 8% are with master's degree and 41% have bachelor's degree (Fig 1).

Table 17. Total human resources profile for 2006

	MAIN CAM-PUS	BOKOD CAM-PUS	BUGUIAS CAM-PUS	TO-TAL
Total Regular Plantilla Positions	599	50	69	718
Filled Plantilla Positions	554	48	68	670
Vacant Plantilla Positions	45	2	1	48
Total No. Of Executive Positions	2	0	0	2
Total No. Of Teaching Personnel	318	32	46	396
Total No. Of Non-Teaching Personnel	279	18	23	320
Contractuals *	36	2	2	40
Substitutes	7	0	2	9
Job Orders	46	2		48

* - The salaries of these contractuels were charged against vacant plantilla positions

Educational Attainment of Non-teaching Personnel



Human Resource Development

There are sixteen (16) faculty members and three (3) support staff of the University who completed their graduate studies in 2006, mostly at Benguet State University (Table 18). Three (3) of them completed the doctorate degree and the 13 completed master's degree. Faculty and staff from the College of Agriculture were recipients of the COE Thesis Assistance.

There are 18 faculty and support staff members on scholarship pursuing their higher degrees while others are doing post doctoral research, and training programs locally, or abroad like India, South Korea and Belgium (Table 19). The sponsors of the scholarships are: the Benguet State University; COE Faculty Development; Commission on Higher Education (CHED); Philippine Inter-University Cooperation (PIUC-VLIR); International Crops Research Institute for the Semi-Arid Tropics (ICRISAT); South Korea; and, Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA). Most of the scholars are funded by PIUC. Dr. Rosana P. Mula and Dr. Leoncia L. Tandang are pursuing post doctoral research/ training in India and South Korea, respectively. Six (6) of the scholars are pursuing doctoral degrees and all others are pursuing master's and review courses.

Likewise, at least there were 28 international seminars/ training courses attended by several faculty and staff members (Table 20). These activities were held in different countries; Philippines, Belgium, Germany, China, Egypt, Hongkong, India, Malaysia, Netherlands, Singapore, South Korea, Australia, Taiwan, Italy, Cuba, Kenya, Vietnam, Thailand and Indonesia.

Table 18. List of personnel who completed their graduate studies in 2006

Name	Position	Unit Assignment	Degree and Specialization	School Attended	Date of Graduation	Sponsor/ Scholarship Availed
Abellera, Cunegunda D	Asst Prof I	Department of Extension Education	MS in Extension Education	BSU	October 2006	COE Thesis Assistance
Ablaza, Gretchen Gaye F.	Administrative Aide IV	Dean's Office	Master in Public Administration	BSU	April 2006	TDAC Assistance
Balaing, Jose G.	Asso Prof V	Department of Soil Science	PhD in Agronomy	BSU	October 2006	COE Dissertation Assistance
Bolayo, Yvonne	Inst J	Chem. Dept.	MA Chemistry	BSU	October 2006	None
Bolinget, Elvira	Inst J	Chem. Dept.	MA Chemistry	BSU	October 2006	None
Bua-ay, Brenda	Inst I	MPS Dept.	MA Statistics	BSU	May 2006	None
Cadawan, Petra	Inst J	Chem. Dept.	MA Chemistry	BSU	October 2006	None
Daclan, Estrellita M.	Administrative Officer III	Budget	PhD-Educational Management	BSU		None
David, Agustin	Instructor I	ELS	MAEd Administration and Supervision	Baguio Central University	May 2006	None
Dulay, Odelon C.	Security Guard I	Security Services	Master in Public Administration	BSU		None
Fagyan, Alexander W.	Asst Prof I	Department of Soil Science	MS in Soil Science	BSU	October 2006	COE Thesis Assistance
Garcilian, Analyn B.	Administrative	Open Universi-	MS Rural	BSU	October	None

Name	Position	Unit Assignment	Degree and Specialization	School Attended	Date of Graduation	Sponsor/Scholarship Availed
	Assistant	ty	Development		2006	
Kudan, Silvestre L.	Asso Prof IV	Department of Horticulture	PhD in Horticulture	BSU	October 2006	COE Dissertation Assistance
Macanes, Valentino L.	Asst Prof IV	Dept of Agroforestry	MS in Plant Pathology	BSU	October 2006	COE Thesis Assistance
Mede, Janet	Inst I	Humanities Dept.	MA Filipino	BSU	October 2006	None
Mendoza, Ana B.	Instructor	CVM	MS in Rural Development	BSU	April 2006	None
Ocden, Christina	Inst I	MPS Dept.	MA Statistics	BSU	April 2006	None
Toyhacao, Marycel	Inst I	MPS. Dept.	MA Statistics	BSU	April 2006	None
Tudayan, Rachel K.	Admin Aide III	Dept of Plant Pathology	MS in Plant Pathology	BSU	October 2006	COE Thesis Assistance
Unos, Mary Ann C.	Instructor I	Research Coordinator	MA Physical Education	BSU	October 2006	None

Table 19. List of personnel who are on scholarship/pursuing higher degree

NAME	POSITION/ COLLEGE	UNIT ASSIGNMENT	DEGREE AND SPECIALIZATION	SCHOOL ATTENDED	SPONSOR/ TYPE OF SCHOLARSHIP	DURATION OF SCHOLARSHIP
Anongos, Stanley F.	Inst I/ CAS	Social Sci. Dept.	PhD History	UP Diliman	PIUC-BSU	June 2004 - May 2007
Awat, F.	CA		MS Dev Communication	BSU-Open University	None	
Batani, Ruth S.	Inst I/CAS	Soc. Sci. Dept.	PhD Anthropology	UP Diliman	None	June 2006 - May 2007
Callas, F.D.	CVM		MLIT	SLC	None	
Del-amen, Jao-jao S.	Instructor I	DHE, CHET	Diploma in Food Science and Nutrition	University of Ghent	VLIR	Oct. 2005 - Oct. 2006
Deponio, Christopher P.	Inst I	Department of Agroforestry	MS in Horticulture	BSU	COE Thesis Assistance	
Dom-ogen, Manuel Jr. L.	Inst I	MPS Dept.	Masters in Info. Technology	UC, Baguio City	CHED	Jan. 2006-2008
Fernando, J.I.	CA		MS Dev communication	BSU-Open University	None	
Florida D. Calias	LL 1	CVM library	MLIT	San Fernando, LA Union	PIUC	2 years
Mula, Rosana P.	Assoc. Prof V	Department of Extension Educ	Post Doctorate Research	ICRISAT	ICRISAT	2005-2008
Parao, MR	Instructor II	SFI Department	PhD Forestry Silviculture	UPLB-College of Forestry and Natural Resources	SEARCA	June 2005-May 2008
Ricardo, Marjorie	CL I	ULS	MLIT	SLC	PIUC	2 Years
Sagalla, Esther Josephine D.	inst I	Department of Agronomy	MS in Agronomy	BSU	COE Faculty Development	

NAME	POSITION/ COLLEGE	UNIT AS- SIGNMENT	DEGREE AND SPECIALIZA- TION	SCHOOL ATTENDED	SPONSOR/ TYPE OF SCHOL- ARSHIP	DURATION OF SCHOLAR- SHIP
Salcedo, PG	Instructor II	FBS/WST De- partment	PhD Research- GIS	Belgium: Ka- tholieke Un- iversiteit Leu- vin	BSU-PIUC	Sept. 2006- Sept. 2007
Samonte, Leonardo	Asst. Prof. IV	Soc. Sci. Dept.	Law (Bar Review)	UB, Baguio City	BSU	1 st Sem. 2006 - 2007
Sibayan, Jean Jannette D.	Instructor I	OSA-TMDO	Ph.D. major in Clinical Psy- chology	University of Sto. Tomas	Study Leave with Pay	June 2006- June 2009
Tagarino, Leopoldo N.	Assoc. Prof II	Dept of Agric'l Econ and Agri- business Magmt	PhD. In Biologi- cal Sciences (Agricultural Economics)	University of Ghent	PIUC	2005-2008
Tandang, Leoncia L.	Prof. IV	Department of Agronomy	Post Doctoral Research	South Korea	South Korea	2006-2008
Wakat, Anna Liza B.	Inst I	Dept of Exten- sion Education	MS in Develop- ment Communi- cation	UP-Open University	COE Faculty Development	1 st sem 2005- 2006 to 1 st sem 2007 to 2008 (5 semesters)
Wakat, Jimmy A.	Inst I	Department of Agroforestry	MS in Environ- mental Re- source Man- agement	UP-Open University	COE Faculty Development	1 st sem 2005- 2006 to 1 st sem 2007 to 2008 (5 semesters)
Walsiyen, Myma B.	Asso Prof I	Department of Animal Science	PhD in Animal Science	De La Salle University (GAUF)	COE Dissar- tation Assis- tance	
Walsiyen, Jimmy A.	CA		PhD Animal Science	DLSU-GAUF	BSU-COE	

Attendance to Seminars and Conferences

To further provide incentives to faculty who excel in research to enhance the teaching capabilities they were supported to present papers and/or attend conferences within and out of the country. It was also a mechanism by which the university shared the technology/knowledge they generated to scientists/teachers in other countries. Faculty members with winning papers in national or international seminars/conferences were given monetary awards as incentives.

At least 20 faculty and staff members attended 28 international scientific seminars/conferences, study visits, and/or signing of memorandum of agreements with other countries. There were 18 countries visited as follows: Australia, Belgium, China, Cuba, Egypt, Germany, Hong Kong, India, Indonesia, Italy, Kenya, Malaysia, Netherlands, Singapore, South Korea, Taiwan, Thailand, USA, and Vietnam. One conference was on the International Conference on Education for the Visually Impaired in Malaysia. The trip to Taiwan was for the signing of memorandum of agreement with the Asian Vegetable Research Development Center (AVRDC). The trip to China was on a Pest Risk Analysis that is very crucial in the suspension of the importation of fresh vegetables (that being grown in the Philippines) from China.

Table 20. List of International Trainings/Seminars/Paper presentation attended by faculty and staff

TITLE OF TRAINING/SEMINAR ATTENDED/ PAPER PRESENTED	PERSONNEL INVOLVED	PLACE	DURATION	SPONSOR
Vegetable Production Training	Franklin G. Bawang	EICA, Egypt	Feb 15 to April 30, 2006	PIUC
Asian Congress on Dietetics	S.B. Balauro I.O. Degay	PICC, Manila	April 23-26, 2006	Asian Federation of Dietetics Association (AFDA)
15 th International Food and Drinks, Hotel Restaurant and Food Service Equipment Exhibition and Conference	P.B. Belino	Singapore Expo Food Hall	April 24-27 2006	Food & Hotel Asia 2006 NDAP Foundation sponsored the travel thru EPA Award
The Annual Conference of the Pacific Rim Objective Measurement Symposium: Hongkong:	Ma. A. B. Lubrica and JV Lubrica	Hongkong Institute of Education, Hongkong	June 27-29, 2006	Hongkong Institute of Education
World Conference on Inclusive Education	Dr. Percyveranda Lubrica	Kuala Lumpur, Malaysia	July 17-22, 2006	International Conference on Education for the Visually Impaired (ICEVI)
International Horticulture Congress	Dr. Lorenza G. Lino	South Korea	August 13 – 19, 2006	PIUC-VLIR
1 st Int'l Conference on Indigenous Vegetables & Legumes: Poster presentation on "Indigenous Semi-Temperate Vegetables	Dr. Lorenza G. Lino	Hyderabad, India	Dec. 11-15, 2006	ICRISAT, BSU-COE & PIUC
"MDG's – Youth U.N.I.T.E. in Action!" Unity Nation-Building Inter-cultural / Inter-generational Transparency Empowerment 7 th International Youth Day	Aurora P. Parcasio	Rizal Monument, Araneta Coliseum, PICC, Universidad de Manila	August 10-12, 2006	UNAP with the cooperation of United Nations Volunteers/ UNDP and Youth Federation for World Peace as principal partner
Pest Risk Analysis of Carrots and other vegetables	Dr. Asuncion L. Nagpala and Dr. Jocelyn C. Perez	Xiamen Fujian and Shandong, Republic of China	September 18-28, 2006	Republic of China, DA and BSU
Short Course on Spatial Data Handling:GIS Remote Sensing Database	Marcel A. Guron	ITC, Enschede, Netherlands	Oct. 02 – Dec. 22 2006	NUFFIC (Netherlands Fellowship Program)
SEASREP Advanced Seminar on Islam in Southeast Asia	Ruth S. Batani	Ayutthaya, Thailand	Oct. 30 – Nov. 30, 2006	SEASREP
Training Course in Library Science	Grace Quijano	Belgium	Oct-Nov 2006	VLIR
International Conference for Administrators of Student Affairs	Willfredo T. Mina	Hongkong	November 2006	Philippine Association of Administrators of Student Affairs (PAASA)
Presented paper on "Challenges of ICT in Education: The BSU-Philippine Experience" at the 5 th International Conference on Higher Education	Dr. Darlyn Tagarino	Cuba	February 13-17, 2006	PIUC

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TITLE OF TRAINING/SEMINAR ATTENDED/ PAPER PRESENTED	PERSONNEL INVOLVED	PLACE	DURATION	SPONSOR
MOA signing with AVRDC and networking with the National Chung Hsing University and the National Ping Tung University of Science and Technology	Dr. Rogelio D. Colting Dr. Sonwright Maddul Dr. Percival Alipit Dr. Erlinda Alupas	Taiwan	March 6 -12, 2006	BSU-PIUC
Study Visit to the University of Nairobi ICT facilities, Kenya	Almano Abenoja Flordeliza Naje Dr. Darlyn Tagarino	Kenya	March 14 – 22, 2006	BSU-PIUC
Library Development Training	Dr. Julita Tuguinay	Belgium	March 16 – Feb. 18, 2006	BSU-PIUC
Participated in Inwent Training	Flordeliza Naje	Germany	March 25 – April 1, 2006; Nov 19 – 26, 2006	
Study Visit to Hankyong National University	Dr. Rogelio Colting	South Korea	April 26 – May 2, 2006	
Presented paper on "ICT Best Practices in Bridging the Digital Divide," during the APEC Digital Opportunity Awards	Flordeliza Naje	Taiwan	June 27 – July 1, 2006	
Poster presentation on "Indigenous Semi-Temperate Vegetables," Korea	Dr. Lorenza Lirio	Korea	August 13 -19, 2006	
Participated in the Workshop on Optimization Techniques for Low Bandwidth	Paul Garcia	Italy	October 9 – 20, 2006	PIUC
Presented paper on "Positioning to Meet Global Competition: The Higher Education Challenge" at the International Forum on Globalization and Integration in Higher Education, Vietnam	Dr. Darlyn Tagarino	Vietnam	October 16, 2006	PIUC
Study Visit to Kyung Woon University	Dr. Rogelio Colting	South Korea	Nov. 16 -19, 2006	
Presented paper on "Jointly Managing Cuitflower-Vegetable Production Systems" at the International Symposium on Fresh Produce Supply Chain Management	Dr. Ma. Klondy Dagu-pen	Thailand	December 6 - 10, 2006	
Presented paper on "Institutional Collaboration for a Comprehensive Assessment of Pesticides Residues in two Selected Municipalities in Benguet, Philippines" during the 5 th Anniversary of the Association of Southeast Asian Institutions of Higher Learning	Dr. Carfilo Laurean	Indonesia	December 2 -8, 2006	BSU-PIUC
Networking visit with Faculty of Teacher Education and Social Work at the University of Sydney	Dr. Percyveranda Lubrica And Dr. Darlyn Tagarino	Australia	December 12-18, 2006	BSU-PIUC
International Training Course on Integrated Pest Management for Sustainable Agriculture	T. D. Masangcay	Netherlands	May 29 – June 23, 2006	NFP
International Training Course on Seed Potato Technology, Certification & Supply Systems	G.S. Backian	Netherlands	June 6-30 2006	NFP
Indigenous Semi-Temperate Vegetables of Cordillera	L.G. Lirio M.A. Balcita L.P. Pladio L.O. Ayyokad J.N. Paing	Seoul, Korea	August, 2006	STVRDC

TITLE OF TRAINING/SEMINAR ATTENDED/ PAPER PRESENTED	PERSONNEL INVOLVED	PLACE	DURATION	SPONSOR
Postharvest Technology of Semi-temperate Vegetables in the Philippines	V. B. Salda	Korea	April 19-28, 2006	PCARRD and RD Admin of the Republic of Korea
Intellectual Property Rights Training Course for IP Trainers	C. P. Laurean	Tokyo, Japan	July 5-26, 2006	Japan Patent Office, Tokyo, Japan
International Teilhard Asia 2006 Conference	C. P. Laurean	Quezon City, Philippines	August 31 – September 3, 2006	PIUC
Seminar and Annual Convention of the International Society for Southeast Asian Agricultural Sciences Inc. (ISSAAS)	J.G. Dati, I.C. Gonzales E.T. Botangen T.D. Masangcay J.C. Perez, V.B. Salda	UPLB	October 26, 2006	ASSAAS
Participatory Selection of Organic Potato Varieties: A Strategy to Conserve Resource in the Philippine Highlands	B.A. Tad-awan, D.K. Simongo, E.J.D. Saggalla J.P. Pablo, C.G. Kiswa C.C. Shagol	UPLB, Laguna	October 26, 2006	BSU- STVRDC
Symposium on the Future Role of Asaihi in the 21st Century and Conference on Disaster Management Through Regional Cooperation	C. P. Laurean	University of Indonesia, Jakarta	December 4-7, 2006	PIUC

Faculty and Staff Awards

On the 90th Foundation Day Celebration, different award categories were given to deserving faculty members. The 2005 Outstanding Teacher Awardee is Dr. John James F. Malamug, Associate Professor II of the College of Engineering and Applied Technology while the 2005 Best Teacher Awardee is Dr. Edna A. Chua, Professor VI of the College of Arts and Sciences (Table 21). Loyalty/ Service Awards were also given to faculty members and employees who rendered service to the university every after 5 years. The awardees received plaques of recognition and monetary incentive. Special Award was given to two (2) faculty members who received national award for giving honor to the University.

Moreover, researches presented thru discussion or thru poster by the faculty during the research fora were given awards which were sponsored by the University, HARRDEC, Central Luzon State University (CLSU), International Society of Southeast Asian Agricultural Scientists (ISSAAS) Philippine Chapter, National Academy of Science and Technology (NAST) and other organizations. Faculty and staff for their research received most of the awards and extension works.

This year, the annual award given by PARRFI was given to Dr. Lorenza G. Lirio, Professor II of the College of Arts and Sciences. From the same college, Dr. Joel V. Lubrica, Associate Professor V, was awarded by the Civil Service Commission as Finalist to the Lingkod Bayan Award 2005.

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Table 21. Awards received by faculty/staff

AWARDEE	NAME OF AWARD	AWARDING AGENCY	DATE AND VENUE
Tad-awan, Bernard S.	Best Paper (<i>Ganoderma</i> : Potential Nefri-ceutical in Luzon)	Benguet State Uni-versity	April, 2006 BSU, La Trinidad, Benguet
Nagpala, Asuncion L.	2 nd Place, Oral Paper Presentation: BSU Annual In-House Research Review	Benguet State Uni-versity	May 22-24, 2006
Tad-awan, Belinda A. and Esther Josephine D. Sa-galla	Best Paper (Indigenous Legumes: A Chal-lenge to Sustainable Conservation and Utili-zation of Traditional Food Crop Diversity in the Philippine Highlands), International Con-ference on Biotechnology	Central Luzon State University (CLSU)	August 11, 2006 at Su-preme Hotel, Baguio City
Lubrica, Joel V.	Finalist- Lingkod Bayan Award	Civil Service Com-mission	Sept. 27, 2006, Baguio City
Villanueva, Luciana, M., et al.	Best Paper (Fungal hyperparasites and bo-tanical antagonists as component of disease management strategy for chrysanthemum rust)	HARRDEC	June, 2006 NTC-ATI
Tad-awan, Belinda A. & Esther Josephine D. Sa-galla	1 st Runner-Up for Best Paper (Indigenous Agronomic Crops [Rice Landraces and Lima Beans]: Opportunity for Sustainable Conser-vation in Benguet	HARRDEC	August 3, 2006 at BSU, La Trinidad, Ben-guet
	3 rd Place, Oral Paper Presentation. HARR-DEC Regional Sectoral/Commodity Re-search Review	HARRDEC	22-23 June 2006
Tad-awan, Belinda A. and Esther Josephine D. Sa-galla	ISSAAS Best paper (Indigenous Legumes: A Challenge to Sustainable Conservation and Utilization of Traditional Food Crop Diversity in the Philippine Highlands)	ISSAAS Philippine Chapter	October 26, 2006 at ACTETSME, UPLB
	NAST Annual Convention – Best Scientific Poster (Agriculture)	National Academy of Science & Technol-ogy (NAST)	July 12 – 13, 2006 Manila Hotel, Manila
Lirio, Lorenza G.	PARRFI Professorial Chair Award	PARRFI	August 2006
L. Villanueva, A. Pinon A. Nagpala, T. Masangcay	Best Paper (Crop Sector), <i>Beneficial Microorganism: A Sustainable Management Strategy for Chrysanthemum White Rust</i>	Sectoral Review of RDE Projects and Farmers' Forum	June 22-23, 2006
M. Cadataf, J. Perez C. Kiswa, P. Datang I. Gonzales, T. Masangcay V. Salda, B. Gayao, D. Meldoz, D. Simongo C. Pulliney, J. Dalil, L. Pacuz, E. Botangen, G. Backian	Best Paper (Social Research) <i>Rootcrops Industry Profile</i>	Regional R&D High-lights Symposium and Farmers' Forum	June 22-23, 2006
I. Gonzales, E. Botangen F. Balog-as, C. Kiswa, D. Simongo, T. Masangcay	Best Paper (Research Category) <i>Evaluation of Processing and Table Potatoes in the Philippine Highlands</i>	Regional R&D High-lights Symposium and Farmers' Forum	August 1-3, 2006
B. Ligat L. Colling J. Perez	1 st runner-up (Poster Category) <i>Use of Parasitoids to Manage Potato Leafminer <i>Liriomyza huidobensis</i> Blanchard) Associated with Semi-temperate Vegetable Crops in the Cordillera</i>	Regional R&D High-lights Symposium and Farmers' Forum	

AWARDEE	NAME OF AWARD	AWARDING AGENCY	DATE AND VENUE
L.G. Lirio, M.A. Balcita L.P. Pladio, L.O. Ayyokad, J.N. Paing	Best Poster	28 th National Academy of Science and Technology	August 13-18, 2006
B.S. Ligat, L.M. Colting, J.C. Perez, C.S. Ligat	2 nd Place (Poster Category)	28 th National Academy of Science and Technology	August 1-3, 2006
B. S. Tad-awan, J. Aspiras J. Cuaresma	1 st Place, Nutrient Growth Factors for Mycelial Production of <i>Ganoderma lucidum</i>	In-House Review	May 22-24, 2006
A.L. Nagpala, L.D. Lando, J.C. Perez, J.S. Luis, A.A. Basalong, R.K. Tundayan C.D. Ba-a, J.P. Galeng	2 nd Place, Survey, Identification and Mapping of Plant Pathogens and Alternative Weed Host in Benguet, Philippines		May 22-24, 2006
B. A. Tad-awan D. P. Padua	3 rd Place, Indigenous Agronomic Crops: Opportunity for Sustainable Conservation in Benguet		May 22-24, 2006

Other Significant Accomplishments

On Administrative Services

During the year, some administrative reforms had been undertaken to further enhance facilitative and support services to general administration, instruction, research, extension, and production. These are as follows:

- Establishment of a procurement classification guide to facilitate consolidation of submitted project procurement management plans (PPMP).
- One-time preparation of salaries and benefits either through ATM or payroll, thereby minimizing the use of individual vouchers.
- Reconciliation of premium accounts of University personnel with the GSIS covering the period July 1997 to June 2006.
- Immediate certification on obligation requests or budget utilization requests on a "first-come, first-served" basis, the release time of the documents is within one-half day.
- Administrative systems and procedures were disseminated through administrative issuances of the University President. Responsibilities had been identified in order to establish a smooth flow of transactions in the University. The table includes the provisions of the issuances like authorized signatories in documents, composition of committees, their functions, and some guidelines that will direct the offices and personnel in the processing of documents (Table 22).

Table 22. The pertinent administrative issuances prepared in 2006.

	AUTHORITY	SUBJECT	OBJECTIVE/PURPOSE
I. RESPONSIBILITIES			
1.	Adm. Memo. No. 9; July 12, 2006	Designating Signatories for Financial Transactions and Providing the Flow-chart in the Preparation, Processing, and Approval of Check Disbursement	1.1 Implementing the provisions of COA Circular No. 2006-003 regarding amendments related to budget, accounting and disbursement functions under the New Government Accounting System (NGAS); 1.2 Designating signatories for the following forms: a. Obligation Request (ObR) b. Budget Utilization Request (BUR) c. Disbursement Voucher d. Checks 1.3 Providing the flowchart for the processing of the above-mentioned forms; 1.4 Establishing responsibilities of signatories/officers concerned;

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	AUTHORITY	SUBJECT	OBJECTIVE/PURPOSE
			1.5 Setting three (3) days as the maximum period of processing disbursements.
2.	Adm. Memo. No. 11, August 15, 2006	Reconstitution of the University Bids and Awards Committee, its Secretariat, and Technical Working Group	2.1 Designating the regular members, provisional members, and observers of the University Bids and Awards Committee 2.2 Assigning the Chair and 3 members of the BAC Secretariat 2.3 Assigning the offices to compose the Technical Working Group: Physical Plant and Design Office, IT Division; and the Sector Procurement Management Office 2.4 Enumerating the functions of the UBAC, Secretariat, and the Technical Working Group.
3.	Adm. Memo. No. 16, August 31, 2006	Designating Personnel to Compose the Monitoring and Management Inspection Committees Reiterating the Functions Thereof	3.1 Designating the Chair, Vice Chair, and 5 Members of the Monitoring Committee to certify reports of construction and repair; 3.2 Designating the Chair, Vice Chair, and 5 Members of the Management Inspection Committee to certify inspection reports and review purchase requests, abstract of quotations, purchase orders and other papers prior to payment of deliveries;
4.	Adm. Order No. 2, December 11, 2006	Reconstituting the Disposal Committee and Providing the Conditions that Comprise Disposable Property	4.1 Designating the Chairperson and 4 Members of the Disposal Committee 4.2 Assigning the functions of the Disposal Committee; 4.3 Enumerating the conditions that constitute disposable property to guide University officials and employees
2. PROCUREMENT CLASSIFICATION GUIDE			
1.	Office Memo. No. 47, November 7, 2006	Submission of 2007 PPMP's (Project Procurement Management Plans) on or before November 22, 2006	1.1 Establishing the University Procurement Classification Guide for the preparation of PPMP's and to facilitate their consolidation by the BAC Secretariat 1.2 Requesting heads of offices to submit their 2007 PPMP's 1.3 Updating PPMP's every 6 months 1.4 Reiterating the "No PPMP No Procurement" principle

On General Services

Aside from the repairs and improvements of the different facilities of the University, several constructions were undertaken by the Administration as follows:

- Construction of the BSU Land Mark on the 90th Foundation Celebration
- Construction of Septic Tank, 2 comfort rooms, 1 bathroom at the Pomology project
- Construction of chicken dung drier at the Poultry Project
- Rehabilitation of the water tank reservoir
- Construction two greenhouses for floriculture and research in Balili area

Other infrastructure projects were bidded out by contract as enumerated in the following table.

Table 23. List of completed infrastructure project as of December 31, 2006

NAME OF PROJECT	APPROVED BUDGET	FUNDING SOURCE	MODE OF IMPLEMENTATION	DATE STARTED	DATE COMPLETED	TOTAL PROJECT COST (P)
A. BIDDED OUT PROJECTS						
1. Construction of the Greenhouse funded by CHED	P795, 779.00	STF	Contract	May 2, 2006	June 19, 2006	795,779.00
2. Construction of Perimeter Fence, Site II (OSA to Last Gate)	P590, 709.60	STF	contract	June 29, 2006	Aug. 26, 2006	590,709.60
3. Construction of Perimeter Fence, Site I (DO to ELS)	P551, 169.73	STF	Contract	Aug.15, 2006	Sept. 20, 2006	551,169.73
4. Construction of Tennis Courts (two courts)	P1, 397,633.40	STF	Contract	Aug. 30, 2006	Nov. 11, 2006	1,397,633.40
5. Installation of the LAN Cabling (Fiber Backbone)	P1, 699,610.73	STF /RLE-CN	Contract	Sept. 26, 2006	Oct. 18, 2006	1,699,610.73
B. Bidded Out Project- Charged to Repair & Maint.						
1. Concreting of access road going to Biodiversity Project	P297, 465.00	STF	Contract	Aug. 29, 2006	Sept. 22, 2006	297,465.00
2. Repair of Biodiversity Laboratory-Ampasil	P274, 793.36	STF	Contract	Aug. 28, 2006	Sept. 26, 2006	274,793.36
3. Construction of Grouted Riprap and Repair & Extension of Pigpen	P210, 937.96	STF	Contract	Aug. 28, 2006	Sept. 26, 2006	210,937.96

On Planning and Development

- Conducted the 2006 Operational Plan, review of 2006 plan and Mid-year evaluation.
- Re-packaged the proposed BSU Code vis-à-vis the old version for review and approval of the BOR
- Participated in the Monitoring of infrastructure projects
- Conducted series of workshops/meeting with Mariano Marcos State University on the preparation of project proposal for possible foreign funding assistance.
- Conducted Initial University Land use Planning workshop
- Conducted 2007 Operational Planning workshop and packaged proceedings.

On Land Reservation

- Conducted relocation survey within the BSU reservation boundary at Timoy, Puguis and Balili, La Trinidad, Benguet;
- Surveyed the individual lots of Wayas et. al. claims at Wangal, La Trinidad, Benguet for segregation from BSU lots, which was submitted to the DENR for approval;
- Delineation survey of BSU boundary with private claimants at Swamp, Betag, La Trinidad;

On Information and Communication Technology

- Upgraded ICT Administrative Facilities (includes ICT, housing, land, development, auxiliary services, bodega, admin offices, etc)
- Developed Administrative systems
- Installed the Gigabit LAN backbone – fiber optic to the CA, CHET, R & E complex and CN.

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- Connected more offices in the network like CN, CAS-Annex, RSDC, Food Processing, Bakery, Soil Science, Chemistry, Biology-lab and HARRDEC
- Extended student internet access – 30 computer units in place as internet lab.
- Upgraded the Caroline (on-line learning system)
- Updated Website
- Expanded the technical support team
- Expanded ICT technical/lab at the MPS, Administration and R & E.
- Implemented ICT PIUC funded special projects such as: deployment of Wireless LAN at 108 Mbps (CEAT, CF), Installation and Upgrading of LAN to Gigabit backbone of CTE, Library, and CAS Annex, LAN expansion to CA, Establishment of student/employee computer laboratory at ICT division, Procurement of a CISCO router module and Fiber patch cords, Procurement of a IBM X206m server for GIS, Procurement of additional 11 computer units for the ICT Hall

SPECIAL PROJECTS

A. Philippines Institutional University Cooperation Programme (PIUC)

The second quarter of 2006 is the beginning of the 7th year of implementation. A total of P948,387.00 was spent on continuing research activities, support to scholars and other operational costs. Major outcomes are as follows:

Project 1. Strengthening the SLU/BSU Network Joint Steering Committee meeting conducted with the presence of Prof. Dirk de Waele. Major decisions reached were: to review the merits of continuing past joint projects and of implementing a joint research that is multi-disciplinary and cuts across the various projects.

Joint Socio-Economics: Community Meeting with Kapangan Officials and community leaders for the livelihood beekeeping project. (August 3, 2006). Meeting with faculty researchers of BSU Bokod Campus for the Lemon Grass Tea Product Development (August 4, 2006). The topics discussed were: Packaging improvement, Consumer acceptability studies, Blending lemon grass with other indigenous plants, Nutritional evaluation of lemon grass beverage, Equipment and materials needed in the project requested.

Joint Health and Environment: For BSU/SLU consortium, four BSU faculty members were invited as guest lecturers for the MS in Environmental Sciences in SLU: For. Precila Salcedo, Dr. Romeo Gomez, Prof. Jose Balaoing and Dr. Carlito Laurean; Conducted 4th Skills Enhancement on Community-Based Research and Extension with Output Dissemination at the BSU Chrysanthemum Hall, August 20, 2006; Presentation of "Pesticide Residues in Soil, Water and Vegetables from selected barangays in a Benguet Municipality: Assessing Potential Concerns on Human Health, in an International Conference, at the Ateneo de Manila University, August 31 to September 3, 2006

Project 2. Institutional Management and Policy Development. PIUC provided funding for the printing of the BSU Brochure. The BSU Code was finalized in a two-day workshop from May 16-17 for endorsement to the Board of Regents. An Action Plan was formulated during the Planning Workshop on Strategizing for Sustainability held on May 19-22, 2006 at Palawan.

Project 3. ICT Development. ICT curriculum of BSU was revised and enhanced ready for implementation in June. Twelve faculty representatives of different colleges prepared learning materials in digital formats during the first eLearning Content Development Training on May 8-12, 2006. On-going MS support for Almario Abenoja and Paul Garcia. Mr. Garcia successfully completed his course work. Ms. Precila Salcedo is supported this year for PhD on GIS in Belgium. Trainings for 3rd and 4th year students of BS Applied Statistics program on Statistical

Package for Social Science (SPSS) was supported on October 22-25, 2006, there were 25 students participated. On Oct. 25-27, the College of Teacher Education Trainers' Training on ICT Pedagogy was conducted and supported by Proj. 3.

Project 4. Library Development. Dr. Julita Tuguinay, the current library director returned from a library management exposure trip to Belgium. Inventory of books and rearrangement of the physical set-up was implemented during the summer break. Books amounting to 168,226 pesos were purchased during the quarter. On-going MS support for Ms. Ricardo and F. Calias.

Project 5. Strengthening the Institute of Social Research and Development. Data gathering, editing and encoding of six (6) researches currently being implemented. These researches of the ISRD were presented during the In-House Review on May 22-23, 2006. Literature review and further refinement of proposes Chain Management Project. Attendance to the 4th National Vegetable Congress on April 26-28, 2006 at Davao City by Dr. Dagupen. On-going scholarship support for S. Anongos and L. Tagarino

Project 6. Establishment of the Semi-Temperate Vegetable Research and Development Center. Reviewed seven new proposals for funding for the year. Paper and poster presentation by L. Villanueva and N. Pedroche during the Pest Management Council of the Philippines Conference in Davao City on May 2-5, 2006. A. Nagpala et al. and B. Tad-awan et al. presented two other posters, respectively in the same conference. Three posters were also presented during the 36th Federation of Crop Science Societies of the Philippines Scientific Congress held on May 8-12, 2006 at Palawan. Researches of the STVRDC were also presented during the In-house review on May 22-23. Completion of the book entitled "Indigenous Semi-Temperate Vegetables of the Cordillera ". and of an article for journal publication of the same study. Three drafts of books/articles being prepared with the following titles: 1. Vegetable and weed diseases in Benguet; 2. Fungal Plant Pathogens in Benguet; 3. Soil-borne Fungi and Bacteria in Benguet.

B. International Language Center

Training activities undertaken by the Center were: from January to February 2006, 19 students from Korea-Yuhak and 29 students from Hankyong National University; in February to May 2006, 1 student from Korea-Yuhak; March to May 2006, 1 student from Hankyong National University; and from April to May 2006, 1 student from Hankyong National University.

C. Biodiversity Project

For the Biodiversity project of the University, it continued the improvement and maintenance of the different components and facilities of the project, increased its collections for the Natural Museum, advertised the Nature's Park through school-to-school info dissemination, ushered visitors from elementary and high schools, and other walk-in visitors and prepared the site and packaged tours for the 2006 Adivay visitors.

D. Organic Agriculture Program

The University started the massive promotion of the organic agriculture program was one of the priorities of the Administration. As of 2006, the University had: integrated organic agriculture concepts in courses under the College of Agriculture such as soil science subjects, agrrib, etc.; established and improved the organic demo farms /greenhouses where production cum research of vegetable crops and herbs is being done; purchased equipment used in the production of organic fertilizers; and established the CA-organic garden; and the mini eco-park in Ballili area. The area became a venue for eco tours especially for students from Baguio City and others schools in the locality. Likewise, it continued the production of compost for rejuvenating the organic farm and for research and production of horticultural crops.

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Trainings on Organic production and composting were conducted that were participated by farmers from Nangalisan, Tuba, Benguet, Benguet coffee growers and strawberry farmers from the Swamp area. Seminars on organic product certification were conducted as well.

BSU will soon join PHIL-ORGANIC Network. BSU opened a section on Organic Agriculture in BSU Website to be linked to the network. The network will be coordinated by PCARRD with participation of selected SUCs and agencies working on Organic Agriculture

E. Geographic Information System and Remote Sensing

The GIS and Remote sensing is a PIUC assisted project. Within 2006, the project was able to: assist CAR-GIS Network in conducting GIS training for participants from DPWH, DENR, Itogon Municipality and other line agencies; Finalized the MOA with SLU and DENR for the On-Job-Training Program of BSU and SLU GIS students with DENR; Continued to digitize BSU landholdings and the BSU-SLU Kapangan Joint Project; and produced digitized maps for use by the Land use planning.

The GIS and remote sensing activities of BSU " highlighted in the and featured at PTV 4 "Mag Agri Tayo"

F. SUC Alliance with Commission on ICT

The SUC Alliance program is coordinated by Commission on ICT. For the year, the following activities were done: 1)the Open Source Technology Expert (OSTE) of the university has started to configure Moodle as the platform for Learning Management for IT Courses under the joint activity of the SUC alliance; 2) BSU ICT Best Practices presented in the Aklan was selected for presentation to Asia Pacific Economic Conference Digital Opportunity Center (ADOC) in Taipei, Taiwan on June 26-30, 2006; 3) Participated in the Organizational Workshop for Small-Medium Enterprise Action Center: Action Planning for the Establishment of SME Action Center. Palawan, October 9-12, 2006; 4) Submitted nominee (Ms. Divina Yango) to the Teachers Training and the Open Source Technology Experts; 5) Mr. Onofre Ibanez and Mr. Dennis Tampoia The KEWL Next Generation Installation Seminar in CICT, Diliman, Quezon City. September 18-22, 2006; 6) Sent Dr. Dante Miguel to the Phase 2 Training of Trainors of Advance Adaptive Technology on Oct. 16-27, 2006 at CICT, Diliman, Quezon City. Dr. Miguel has passed the second level certification to teach Visually Impaired In Individuals Project.

UNIVERSITY LINKAGES

For the year under review, the International Relations Office facilitated the signing of the Memorandum of Understanding/Agreement between BSU and foreign partners (Table 24).

Table 24. List of new and renewed MOA/MOU with international agencies.

<i>Partner Institution</i>	<i>Country</i>	<i>Signatories</i>	<i>Content</i>
Asia Vegetable Research and Development Center (AVRDC)	Taiwan	Rogelio D. Colting Thomas Lumpkin	Joint research
National Ping Tung University of Science and Technology	Taiwan	Rogelio D. Colting Chang-Hung Chou	Faculty, student and research exchange
National Chung Hsing University (Renewal)	Taiwan	Rogelio D. Colting Jei-Fu-Shaw	Faculty, student and research exchange
Forest Environment Research Institute	South Korea	Rogelio D. Colting Moo Chang Park	Research exchange
Han Kyong National University	South Korea	Rogelio D. Colting Seung-Gil Yun	Language Learning, student exchange and research
Kyung Woon University	South Korea	Rogelio D. Colting Hyang-Ja Kim	Language Learning and faculty exchange

The university is maintaining its established linkages with the local, national and international partner agencies and organizations. The types of collaborations made were research and extension (Table 25). A new international linkage being established is with the University of Sydney in the field of education.

Table 25. Research and Development and Extension linkages

NAME OF AGENCY/ ORGANIZATION	TYPE OF PROJECT/ UNDERTAKING	DURATION	DATE OF SIGNING/ APPROVAL OF MOA	UPDATES/ACTIVITIES DONE FROM JANUARY TO DECEMBER 2006
Commission on Higher Education	Strawberry Runner Production		November 25, 2005	A greenhouse and laboratory was constructed
Land Bank of the Philippines	Technology Promotion Center (TPC)	10 years renewable	November 20, 1997	"Validation of Improved Potato Seed Technology for G0 & G1 Potato Tuber Production" is being implemented. The project 'Purple Yam Sett Multiplication & Tuber production is ongoing.
Plastro Asia Inc.	Greenhouse	5 years	March 23, 2004	Production of a year round supply of romaine lettuce using greenhouse-farming technologies.
Department of Agriculture – CAR	Potato Seed Production Project	2 years	On- process	Implementation of the project with initial budget release of 1.5 M
DA-BAR	Potato Sub-Network Program	2 years	On- process	Re-submission of the proposal to DA-BAR for funding
LGU- Pantabangan	Yam and Rootcrop Food Chain RDE Collaboration	10 years	June 2005	Finalized/signed MOU
TCA-Tarlac/DA Region 3	Root Crop RDE Collaboration	10 years	April 2005	Finalized/signed MOU
LGU-Asipulo, Ifugao	Root Crop RDE Collaboration	10 years	On - process	Initial discussion to formalize linkage
Bulacan State University	Root Crop RDE Collaboration	10 years	On- process	
LGU-Ifugao	Sweetpotao Processing	1 year	On-process	Training on sweetpotato processing
	Rootcrop processing	6 years	On-process	Suggestions from BOR to be incorporated
CIP-UPWARD	Potato Production in the Tropical Lowlands	3 years		Technology validation of production practices for lowland potatoes
Neys-van Hoogstraten Foundation (NHF)	Comparative evaluation of nutrition on interventions to promote children's consumption of vegetables, roots and tubers			
Kalinga Agricultural State College	Root Crop RDE Collaboration	10 years	2006	Finalized/signed MOU
LGU-Lubuagan	Ubi livelihood production and Rootcrop processing	6 years	On-process (2006)	Suggestions from BOR to be incorporated

The different colleges of the University made linkages with the following agencies for their college research and extension activities practicum/internship/field exposure of students in their field of specialization:

1. DENR-EMB and CF/CAS-BSU Conduct of undergraduate theses, researches of the Biology Dept.; employment of BSES graduates; linkage with the Humanities Dept. in line with the San Layad Ta & Sa Pugad Cordillera Theatrical plays; extension activities of College of Forestry.
2. LGU, La Trinidad and CF/CAS BSU. College extension activities
3. LGU, Kapangan and CF-BSU. College Extension activities
4. Ampusongan, Madaymen & Mankayan National High Schools and CAS – BSU. College extension activities
5. Luzon Science Consortium and CAS-BSU. CAS student activities; research and extension; seminars & workshops in Biology, Mathematics, Chemistry & Physics
6. NSO, BASS, NSCB and CAS-BSU. On-the-Job Training of BSAS and BSIT students
7. National Commission on Indigenous Peoples (NCIP) and CAS-BSU. Development of the Cordillera Historical Society of BSU (funding & technical assistance).
8. CHED and CF-BSU. Faculty development; researches, instructional facilities, funding and technical assistance
9. Sanju National University (South Korea) and CF- BSU. Research
10. Forest Research Institute (South Korea) and CF-BSU. Research
11. Philippine Forestry Education Network and its member institutions and CF-BSU.
12. Jaime V. Ongpin Foundation Incorporated and CF- BSU. Community service
13. Cordillera Green Network and CF-BSU. College Extension
14. Quirino State College, Tarlac College of Agriculture and CHET, Food Processing, Bakery, & Cafeteria-BSU. Skills application training program.
15. Nutritionist- Dietitians Association of the Philippines Foundation, Inc and CHET-BSU. Scholarship to Faculty & BSND students
16. Le Chef, Baguio Palace Hotel, Baguio Country Club, Ridgewood Hotel – Manor, Gerry's Grill, SM Baguio City, Pines View Hotel, Session's Delight, Max's Restaurant, Mario's Restaurant, Baguio General Hospital and Medical Center, Benguet General Hospital, Baguio Health Department, Department of Education, Baguio and Benguet, Hotel and Restaurant Association of Baguio (HRAB), Benguet Provincial Nutrition Council, Regional Nutrition Council - CAR, and CHET for foodservice Internship for BSND Students
17. Benguet General Hospital, Baguio General Hospital & Medical Center, Baguio Health Department, Roseville Park Center, LGUs of Kapangan and Kibungan and College of Nursing, BSU for outreach activities and internship of students.
18. Department of Education/Schools, Intel Teach to the Future, International Conference for Education of the Visually Impaired (ICEVI), University of Sydney (international Faculty and Student exchange program) and College of Teacher Education. For Researches, Technical Assistance, student teaching and faculty and student exchange.
19. Bureau of Fisheries and Aquatic Resources in Pangasinan, Philippine Carabao Center in Nueva Ecija, Maligsa Farm in Pangasinan, Small Animal Clinic, Mandaluyong, Rizal, and College of Veterinary Medicine for externship practice of students.
20. National Youth Commission, Baguio Center for Young Adults, Ayala Foundation, Inc.-AYLC Secretariat and Office of Student Affairs-BSU for student development activities.

University Officials, 2006

Rogelio D. Colting
University President

Academic Sector

CALORA, Feliciano, Jr. - Vice President for Academic Affairs
 CADATAL, Macario D. - Dean, College of Agriculture
 CASTRENCE, Anatalia V. - Dean, College of Veterinary
 Medicine
 LARUAN, Kenneth A. - Dean, College of Forestry
 LEE, Gloria R. - Director, Institute of Public Administration
 LUBRICA, Percyveranda A. - Dean, College of Teacher
 Education
 MERESTELA, Tessie M. - Dean, Graduate School
 ONG, Susan H. - Dean, College of Nursing
 RIMANDO, Teofilo C. - Director, Institute of Physical
 Education
 SOMYDEN, Ma. Corazon A. - Dean, College of Home Econ.
 & Technology
 TEOFILO, Alfredo T. - Dean, College of Engineering and
 Applied Technology
 TOLEDO, Marilyn B. - Dean, College of Arts and Sciences
 FERNANDEZ, Perlita J. - Director, Open University
 GAMIT, Reynaldo G. Jr. - ROTC Commandant
 CHUA, Edna A. - Director, Office of Student Affairs
 COLTING, Lita M. - University Registrar
 TUGUINAY, Julita A. - OIC, University Library Services
 FORMARAN, Villa L. - Chief, Medical and Dental Services
 VICTOR, Florencia C. - Director, Sentro ng Wikang Filipino
 REBOLLEDO, Ria B. - Editor-in-Chief, Mountain Collegian
 LIGLIGEN, Jonathan G. - President Supreme Student
 Government
 LUMA-ANG, Carlos P. - President, Faculty Club
 PANANGON, Albert B. - Superintendent, Bokod Campus
 COTIW-AN, Basito S. - Executive Dean, Buguias Campus

Planning and Business Affairs

TAGARINO, Darlyn D. - Vice President for Planning, Devt. &
 Business Affairs
 ABEN, Silvestre K. - Director, University Business Affairs
 ABENOJA, Almario - Director, Information & Communication
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 ALUPIAS, Erlinda B. - Director, Planning and Development

Administration Sector

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 Administration
 ESTEBAN, Emilia M. - Chief Administrative Officer
 GRANDE, Wagner F. - Chief, Human Resource Mgmt Office,
 & Pres, BSUNTA
 LIMPIN, Victoria L. - Chief, Records Office
 COILAN, Nicanra J. - Chief, Property & Supply Mgmt Office
 RAPUSO, Mary Joy S. - OIC, Finance Division
 RAMOS, Imelda G. - OIC, Accounting Office
 ALAGAO, Ludivina O. - Chief, Budget Office
 DOMINGO, Norma P. - Acting Head, Cashiering Office
 BANDA-AY, Philip P. - Director, General Services
 ANTONIO, Samson S. - Chief, Motor Pool
 BENGWAYAN, Grace T. - Chief, Office of the University/Board
 Secretary
 BOLINTO, Violeta B. - Chief, Internal Audit Services
 BULIYAT, Marcos A. - Director, Land Reservation Office
 ANGIWAN, Matias C., Jr. - Chief, Legal Office
 JACALAN, Gilda B. - Director, University Public Affairs Office
 WILLIS, Mary D. - COA Resident Auditor
 COMILA, Felipe S. - President, BSUEA
 KISWA, Ambo - Vice President, BSUNTA

Research and Extension Sector

MADDUL, Sonwright B. - Vice Pres. for Res. & Ext. & Dir.,
 HARRDEC
 LAUREAN, Carlilo P. - Director, Research Services
 SOLIMEN, Julia A. - Director, Extension Services
 ALIPIT, Percival B. - Director, Horticulture Research & Training
 Institute (HORTI)
 DAGUPEN, Marie Klondy T. - Director, Institute of Social
 Research and Development (ISRDC)
 DATI, Johnny G. - Director, Northern Philippines Rootcrops
 Research & Training Center (NPRCRTC)
 LIGAT, Julio S. - Director, Inst. of Highland Farming Sys. &
 Agroforestry (IHFSA)
 VILLANUEVA, Luciana M. - Director, Semi-Temperate
 Vegetable Research & Development Center
 (STVRDC)
 LUIS, Janet S. - Director, Training Services

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VISION

A premiere state university in Southeast Asia

MISSION

Develop people with a culture of excellence and social conscience who actively promote environment-friendly technologies for improving the quality of life

2006 Annual Report Task Force

Dr. Erlinda B. Alupias, Planning and Development Director

Dr. Darlyn D. Tagarino, VP for Planning, Development & Business Affairs

Ms. Anabelle K. Cachero, Planning Officer I

Dr. Lita M. Colting, University Registrar

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