

A close-up photograph of a purple flower on a green stem. The flower is in the foreground, slightly out of focus. The stem has several buds and leaves. The background is a soft, blurred mix of green and blue, suggesting an outdoor setting.

ANNUAL REPORT 2004
BENGUET STATE UNIVERSITY

The Cover picture is a flower of garden pea, a leguminous high value crop in the Highlands. The flowers form into pods, which are consumed as vegetable. The picture highlights the establishment of the Semi-Temperate Vegetable Research and Development Center of the University during the year.

Photo by Mr. Rey Fabro



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

Center of
Excellence
in
Agriculture
Education

March 30, 2005

HER EXCELLENCY

President Gloria Macapagal-Arroyo
Malacañang Palace, Manila

Thru: Hon. Rolando V. De La Rosa, OP
Chairperson, Commission on Higher Education
DAP Building, San Miguel Avenue
Ortigas Center, Pasig City

MADAM:

I respectfully submit the Annual Report 2004 of the Benguet State University. It summarizes our accomplishments in terms of programs, activities, and projects that were implemented in line with our vision and mission. Our achievements are centered on the four functions of the University: instruction, research, extension, and production. Accomplishments on governance and general administration are discussed in the first chapter.

This report manifests our strong commitment to perform our mandates with excellence, relevance, and productivity in support to the national goal of building a strong republic.

Thank you for your continued support and more power.

Very truly yours,


ROGELIO D. COLTING
President

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Foreword

The second year of administration by the new leadership was marked by the united implementation of various reforms to achieve greater relevance and efficiency. Guided by its vision of becoming a premier university in highland agriculture, and its allied fields, and in science and technology throughout Southeast Asia, the University has broadened its programs yet focused on strategic strengths in each program particularly in response to the ten-point agenda of the national government. Priority attention was focused on strengthening the university's function in instruction, research, extension, and resource generation.

In instruction, reforms were introduced to enhance teaching by upgrading classroom facilities with ICT resources, updating content of the curriculum, modernizing laboratories, and upgrading our library resources, including the provision of opportunities for human resource upgrading.

Research and extension was refocused to address the challenges of trade liberalization on the vegetable industry even as we continued to pursue basic and applied research in the natural, physical, and social sciences. We established the Semi-Temperate Vegetable Research and Development Center particularly, to implement programs to cushion the impact of globalization on the vegetable industry in the region.

Reforms were also introduced to improve the resource generation capacity of the University by reorganizing the business affairs council, and the conduct of feasibility studies for expanding the business program of the university.

The full support and cooperation of the university officials, faculty and staff, students, members of the board of regents, alumni, international and local partner institutions, non-government organizations and the local government units, must be commended.

The harmonious relationship among stakeholders of the University has made the implementation of programs fruitful and challenging.




ROGELIO D. COLTING
President

EXECUTIVE SUMMARY

The year 2004 marked another year of renewed commitment to excellence and quality service by the Benguet State University. Offering 39 graduate and 16 undergraduate degree programs, five non-degree and eight distance education courses, BSU registered a total enrolment of 6,939. The highest number was in education and agriculture at 2,227 and 1,555, respectively. At the end of the academic year, 1,868 successfully graduated with 6.3% obtaining advanced degrees, 85.9% finishing various undergraduate courses, and 7.8% completing short-term vocational courses.

Notable performance in licensure examinations for nursing, veterinary medicine, and education were exhibited by surpassing the national passing rate. Seventy-one percent of the nurses passed the board with a BSU examinee ranking 12th. For the veterinary board examination, BSU examinees took home the 3rd and 7th slots. Teachers obtained a board passing rate of 58% and 48% against the national passing rate of 27%.

BSU is proud to have one student as the recipient of the much-coveted President Gloria Macapagal-Arroyo Excellence in Leadership Award. Again, three students reaped honors, being among the Ten Outstanding Students of the Cordillera Administrative Region, and as finalists for the 2004 Ten Outstanding Students of the Philippines. BSU produced a regional champion in the Milo Regional Elimination Race, and who placed 9th in the National Milo marathon. Another became second placer in the Wushu World Cup.

The development of students was complemented by the vigorous pursuit of human resource upgrading. Twenty faculty and staff members were allowed to go on study leave or received assistance from the university/other funding donors to pursue MS and PhD degrees. Fourteen faculty members were given the privilege to attend international courses and study tours.

Research continued to be an equal priority. For 2004, 38 research projects were undertaken, 13 of which were completed within the year and 25 are on-going. The highlight was the establishment of the Semi-Temperate Vegetable Research and Development Center in response to the challenges facing the Cordillera Vegetable Industry. Intensified dissemination matched technology generation and verification through the BSU-on-the-Air, the participatory technology adoption program, the Land Bank of the Philippines-BSU-Technology Promotion Center activities, and numerous training opportunities for university clients. The Quick Response Service provided real-time assistance to pressing problems plaguing the farmer communities in Kapangan and Kabayan, Benguet. Continuing proof of BSU's exemplary research performance was exhibited during the HARRDEC Regional R-D-E Symposium, Farmers' Forum and Rice Festival as BSU researchers consistently bested others in the Best Paper Research and Best Paper Development categories.

The University generated a total of PhP 26.5 million from various income generating projects augmenting the PhP 193.9 million coming from government support. Income generation through agri-based, non-agri-based and special projects was intensified during 2004 with expansion of the poultry, coffee, livelihood/entrepreneurial partnerships, facility leases, and with the upgrading of the RSDC cafeteria, the Marketing Center, the Food Processing Center, the greenhouses for high-value crops, to name some. Another significant result was the formulation of the BSU-IGP Manual.

Upgrading of important facilities was a continuing concern. For the year, the perimeter fencing of the Central Balili area, the completion of the Gladiola International House, and the improvement of the motorpool were prioritized. Three new power generators were installed in strategic places. Several small projects such as access road and greenhouse construction, upgrading of basic utilities, and facility repair and maintenance were done.

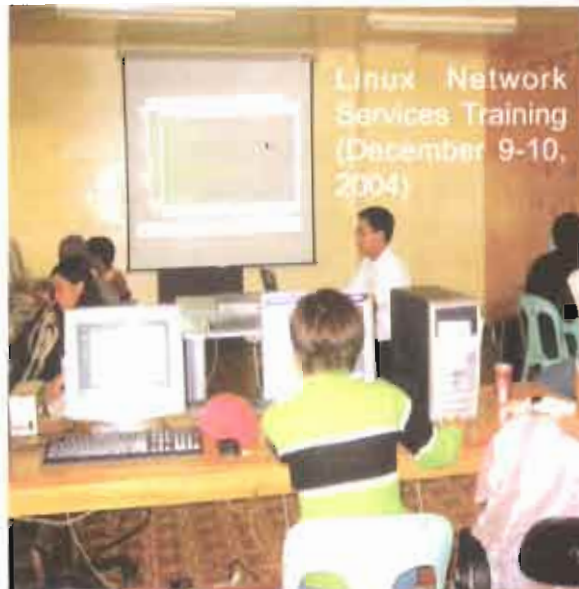
Proactive international networking for the year yielded four new MOUs with universities/agencies in Vietnam and South Korea, and with partnership possibilities with 25 universities/colleges worldwide. Existing ties with the Sangju Polytechnic University in South Korea and with the Flemish Inter-University Council of Belgium were renewed. Notable to mention is the phase 2 implementation of the Philippine Institutional University Cooperation program with a grant of about 60 million pesos for BSU from 2004 to 2009.

The able leadership of the University President, the Board of Regents and the Administrative Council is shown with the passing of 78 resolutions addressing various important concerns during the year. Two prominent citizens were identified to join the prestigious roster of the BSU Board of Regents.

GENERAL ADMINISTRATION



The search committee interviewing the applicants for the two prominent citizens to become members of the Board of Regents.



Linux Network Services Training (December 9-10, 2004)



A visit to the Agronomy department of the Katholieke Hogeschool Kempen (KHK) by BSU delegates together with KHK officials.



88th Foundation Day & 18th Charter Day Celebration
January 12-16, 2004

Theme: Benguet State University: Excellence

SOLO CULTURAL NIGHT

General Administration

Changes in the Governing Board

The University started the year 2004 with a celebration of its 88th Foundation Day and 18th University Charter Day in January 12-16, 2004. Subsequently, several changes took place in the membership of the Board of Regents. Hon. Rolando R. Dizon, being the Chair of the Commission on Higher Education, served as the BSU Chair of the Board of Regents from June 1, 2003 to May, 2004. Hon. Manuel D. Punzal became the Chair designate, of BSU BOR as Officer-In-Charge of CHED from June, 2004 to September, 2004. Hon. Rolando V. De La Rosa took over the Chair of the Board of Regents in October, 2004. In the Senate Committee, Sen. Francis N. Pangilinan was replaced by Sen. Juan M. Flavio in February, 2004, while in the Congressional Committee, Cong. Harlin Castillo Abayon was replaced by Cong. Cynthia Aguillar-Villar in August, 2004. The Director of the Department of Agriculture, Hon. Faustino K. Maslan, retired from the government service last June, 2004. Lately in August, 2004, the membership of both the Department of Science and Technology-CAR and Department of Agriculture-CAR as contained in RA 8292 and CHED Memorandum No. 3, s. 2001 were considered. Hence, Hon. Ben D. Ladlad, joined the BOR, effective August, 2004. Hon. Peter M. Cosalan replaced Hon. Felipe S. Comila as president/representative of the BSU Alumni Association, Inc. in June, 2004. Likewise, Hon. Mark U. Gayas replaced Hon. Dakila F. Padua in October, 2004.

From January to December, 2004, the Board of Regents acted on 78 resolutions addressing various concerns of the University. During the 108th BOR meeting in February 27, 2004, foremost of the resolutions acted upon were the approval of the implementation of the PIUC Phase II, confirming the criteria and point system and time frame for the search for the two prominent citizens to complete the Governing Board of BSU, approval of the Special Trust Fund budget for the Main, Bokod and Buguias campuses of the University, approval of the Internal Operating Budget (IOB) to implement the General Appropriations Act (GAA),

approval of the increase in thesis and dissertation allowance from P10,000 to P20,000 (MS level) and from P20,000 to P30,000 (Ph.D.) for faculty and staff scholars within the University, approval of the establishment of the Semi-temperate Vegetable Research and Development Center in BSU. On April 14, 2004, the highlights of BOR resolutions were: recognizing the need to conduct a feasibility study in the viability of offering Doctor of Medicine in BSU and tasking the BSU Alumni Association to do the same. In June and August, 2004, foremost of their actions were: approval of the creation of the Academic Executive Committee to be chaired by the Faculty Regent and the members will be the Alumni, Student Regents and one from the private sector representatives; Approval of the proposed budget for 2005, as endorsed by the Executive Finance Committee; actions were deferred on the Vision, Mission, Goals and Objectives of BSU as well as the Medium Term (2004-2007) Development Plans and instructing the members to give inputs by way of scheduling a strategic planning session; the requests of the students for the University to provide funds for their insurance was disapproved and instructing the student regent to consult the student body on the matter; the resolution that the students to be represented in their respective College Councils was approved; as well as approval of the bar coding of BSU products - processed and baked products, vegetables, eggs and bottled water; and the Memorandum of Agreement between the Benguet State University, Camarines Sur State Agricultural College (CSSC), the Central Philippine University (CPU), the Mariano Marcos State University and the Development Bank of the Philippines (DBP) on strengthening small, medium enterprises (SME's) through the establishment of "e-Business Centers" in these SUCs.

After the reconstitution of the Search Committee for the two prominent citizens, finally, Mr. Gerry Lab-oyan and Mr. Gabino Garoy were appointed as members (two prominent citizens) of the Governing Board of the Benguet State University, representing the private sector. They shall assume office after taking their oath and will serve as Regents for a period of two years.

Personnel Profile

The University has a total of 545 employees; 279 are holding academic positions and 266 have non-academic positions. Figure 1 shows the distribution of academic rank holders by college, institute, or sector. The three ranking colleges are: College of Arts and Sciences, 72 or 25.81 percent; College of Agriculture, 62 or 22.22 percent; and College of Teacher Education, 60 or 21.51 percent.

Figure 2 shows the distribution of faculty members by academic ranks: Instructor, 36.20 percent; Assistant Professor, 25.45 percent; Associate Professor, 21.86 percent; Professor, 16.13 percent; and College Professor, 0.36 percent

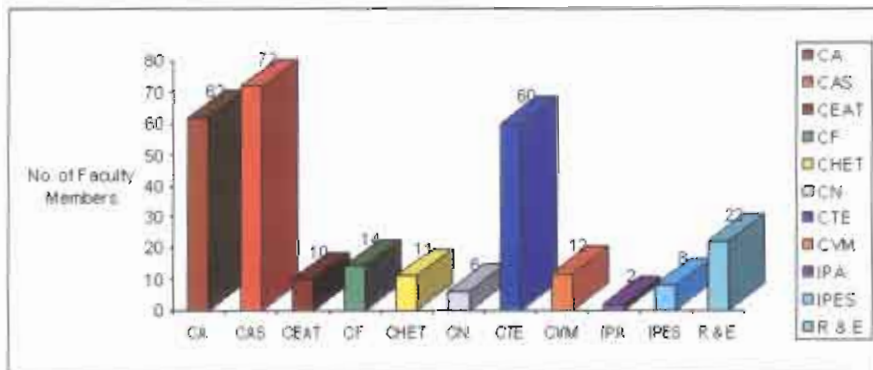


Figure 1. Distribution of academic rank holders by college, institute, or sector.

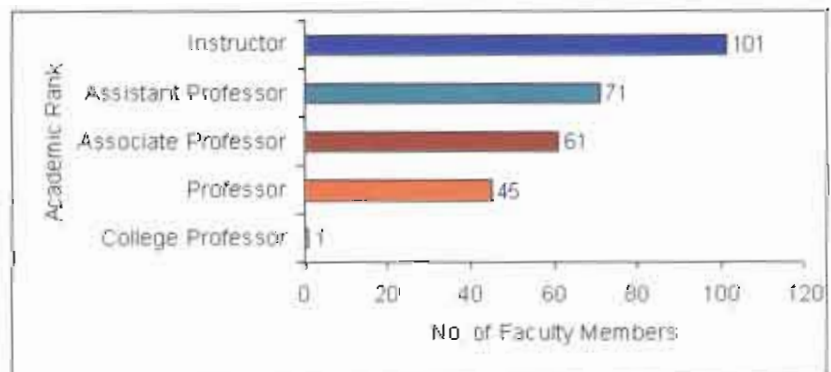


Figure 2. Distribution of faculty members according to academic rank.

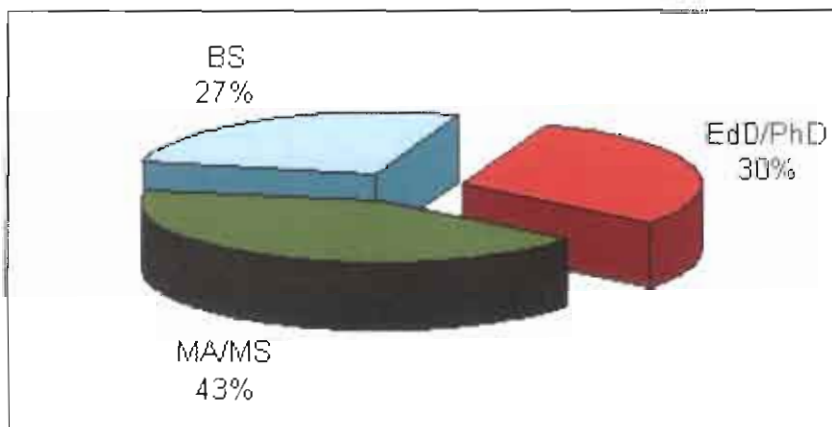


Figure 3. Faculty profile according to highest degree earned

In the faculty profile, 43% are Master's degree holders, 30% are Doctorate degree holders and 27% are Bachelor's degree holders.

General Administration

Separation and Accession of Employment

On the separation and accession of employment, 18 employees have retired and 11 resigned from the University and a total of 24 personnel were appointed for the year 2004. The distribution of which by college/institute or sector is shown on table 1. The number includes all appointments such as permanent, temporary, contractual, and casual status. College of Arts and Sciences and College of Forestry have increased in their number of faculty members with the appointment of one additional instructor each.

A decrease in the number of personnel is seen among the Colleges of Agriculture and Teacher Education; and under the sectors of Research and Extension and the General Administration and Support Services. Filling up of vacant non-teaching positions has been affected by the issuance of Administrative Order No. 103 from the Office of the President, Malacañang, Manila, directing the continued adoption of austerity measures in the government.

Table 1. Separation and Accession of employment

COLLEGE/ INSTITUTE/SECTOR	SEPARATION			ACCESSION/ APPOINTED	INCREASE (DECREASE)
	RETIRED	RESIGNED	TOTAL		
College of Agriculture	3	0	3	2	(1)
College of Arts and Sciences	2	1	3	4	1
College of Eng'g and Applied Technology	0	1	1	1	0
College of Forestry	0	0	0	1	1
College of Home Economics and Technology	1	1	2	2	0
College of Nursing	0	2	2	2	0
College of Teacher Education	7	2	9	8	(1)
Research and Extension	2	1	3	1	(2)
General Administration and Support Services	3	3	6	3	(3)
TOTAL	18	11	29	24	(5)

Faculty and Staff Development

Human Resource development has always been a priority as far as the University is concerned. Hence, all faculty and staff, as far as possible, have been given opportunities to further hone their skills through participation in various international, national, and local trainings, seminars, workshops, conferences and symposia. Whenever possible, study tours were also encouraged.

During the year under review, faculty and staff members from the different colleges/units were given the chance to participate in related undertakings in various disciplines.

Faculty members who opted to pursue advanced degrees were also given financial assistance and/or logistical support to enable them to complete their degrees at the soonest possible time. The financial assistance has been in the form of thesis or dissertation allowance amounting to P20,000 and P30,000, respectively (Table 3).

Twenty faculty and staff members were either allowed to go on study leave or received assistance from the University in 2004. (Table 4). Three faculty members obtained grants/scholarships from outside agencies while the rest acquired institutional grants or privileges.

Table 2. Faculty and staff granted scholarship/assistance to pursue advanced degrees

FACULTY AND STAFF/UNIT	DEGREE SOUGHT/INSTITUTION	SCHOLARSHIP	NATURE OF ASSISTANCE	STATUS
Angelito I. Turda (CF)	PhD, Research/Japan	MONBUSHO, Japan	Full	In Progress
Emilia M. Esteban (HRM)	PhD, Educational Management, BSU	BSU	Study leave with pay	completed
Salvacion Z. Beligan (CAS)	PhD, Educational Management, BSU	BSU	Dissertation Assistance	Completed
Jose G. Balaoing (CA)	PhD Rural Development, BSU	BSU-COE	Dissertation Assistance	In progress
Myma Walsiyen (CA)	PhD Animal Science, GAUF	BSU-COE	Dissertation Assistance	In progress
Antonio Otculan (CA)	PhD Horticulture, BSU	BSU-COE	Dissertation Assistance	In progress
Oryan L. Serrano (CAS)	PhD Science Education, DLSU	DOST	Full	In progress
Ma. Klondy T. Dagupen (CA)	PhD Rural Development, BSU	CHED	Dissertation Assistance	Completed
Stanley F. Anongos (CAS)	PhD History, UP Diliman	PIUC-BSU	Full	In progress
Henry K. Bolinto (CTE)	PhD Agriculture Education	BSU	Full	Completed
John F. Malamug (CEAT)	PhD Agricultural Engineering, C LSU	CHED, BSU	Dissertation Assistance	Completed
Paul G. Garcia, Jr. (VPPD)	MS, Information Technology, BCF	PIUC-BSU	Full but on duty	In progress
Leopoldo N. Tagarino (CA)	MS Economics, BCF	BSU-COE	Thesis Assistance	In progress
Christopher Deponio (CA)	MS, Benguet State University	BSU-COE	Thesis Assistance	In progress
Luke E. Cuangey (CA)	MS, Agriculture, BSU	BSU	Study Leave with pay	In progress
Bernadette C. Bagto (UR)	MS Public Administration, BSU	BSU	Study leave with pay	Completed
Isidro B. Awal (R & E)	MS Horticulture, BSU	BSU	Study leave with pay	In progress
Gabriel J. Tano (CAS)	MA English, UNP	BSE	Study leave with pay	In progress
Maricel A. Guron (CAS)	M Biological Science, SLU	CHED	Full	In progress
Lily D. Sagalla (CAS)	EdD, Benguet State University	BSU	Study leave with pay	In Progress

General Administration

Upgrading of Physical Facilities and Equipment

There were three power generators that were installed at the Administration building, enclosed gymnasium and ladies dormitory and pump station of the new deepwell. Three infrastructure projects were awarded through bidding: the Perimeter fencing in Central Balili area, which has been completed; the completion of the Gladiola International House; and the improvement of the motorpool, which is still on-going.

Several small projects were implemented by the administration, where the labor costs were awarded by contract such as concreting of access

roads, repairs of buildings including toilets, as well as construction of greenhouses for income generating projects and research purposes as shown in table 5. Fabrication of furniture and iron works, installation of water pipelines and electrical utilities and fixtures.

Equipment, supplies and materials were purchased through General Appropriations Act (GAA), supplemented by Special Trust Fund, Special Projects and Income Generating projects. Purchasing was facilitated by the use of electronic procurement or direct purchase from PSDBM except for construction materials, which were purchased through local canvassing.

Table 3. List of project implemented

Name of Project	Cost of Project (Php)	Status/Date of Completion
Projects Bidded Out		
Perimeter fencing of Central Balili	1,054,982.00	Completed
Improvement of the Motor pool Center Court	3,582,124.00	19% completed
Completion of Gladiola Center	12,199,961.89	90.12%
Sub-total	16,837,067.89	
Projects Implemented by contract labor		
Road concreting near the Police Outpost (labor only)	30,900.00	Completed
Concreting of the CTE Quadrangle and Repair of the Elementary School Canteen	40,200.00	Completed
Repair of the Laboratory Greenhouses at Ampasit	78,000.00	Completed
Construction of the Extension of the Soils-Chemistry Building, 2nd floor	46,000	Completed
Construction of two(2) Greenhouses under IGP-Out season vegetable production	147,524.00	Completed
Construction of additional greenhouse under IGP-Out season vegetable production	99,320.00	Completed
Construction of one greenhouse for vegetable seed production	61,858.00	Completed
Construction of 5 greenhouses for soils department research	174,290.00	Completed
Construction of 3 greenhouses for floriculture project	180,000.00	Completed
Installation of floor tiles at the RSDC cafeteria	58,000.00	Completed
Repair and renovation of the 1/F of the GS building for expansion of the marketing center	80,997.00	Completed
Construction of outside comfort rooms at the back of the marketing services for customers and visitors	33,600.00	Completed
Concreting of University road at the Balili Faculty and Staff housing area	35,000.00	On-going
Construction and Development of Bio-diversity Project at Ampasit for research purposes	132,500.00	Completed
Construction of the CTE Technology Education Center and Additional Ladies' Comfort Room (outside)	150,000.00	On-going
Improvement of the Ladies' dorm (10 units Comfort/bath rooms)	66,848.75	Completed
Renovation/Repair of the Food Processing Center	177,769.77	Completed
Construction/Repair of the Fence fronting the administration to oval	158,000.00	On-going
Total cost of Labor	1,750,807.52	

The Gladfola Center is soon to be completed



The newly repaired RSDC canteen



Additional facilities and improvements at the Ladies' Dormitory.



General Administration

Financial Resources

For the year 2004, the University had a total income of P242,220,685.

This amount includes the share from the national budget amounting to P193,878,086. The condensed

statement of income and expenses shows that income exceeded expenses by only P30,948,857. The consolidated balance sheet shows that the total assets versus liabilities and equity amounts to P4,332,862,517.

CONDENSED STATEMENT OF INCOME AND EXPENSES

For year ended, December 31, 2004

INCOME (PhP)		
Subsidy from National Gov't.	193,848,086	
School fees	4,141,080	
Tuition fees	11,125,350	
Services Income	1,527,063	
Income from Canteen operation	2,309,721	
Rent Income	7,857,398	
Income from Vet Hospital	584,360	
Income from Dorm Operations	1,164,997	
Other Business income	17,395,850	
Subsidy from other funds and donation	1,502,500	
Miscellaneous and interest income	734,280	242,220,685
LESS: EXPENSES		
Personnel Services	178,371,769	
Maintenance and other Operating Expenses	32,880,021	
Financial Expenses	20,038	211,271,828
EXCESS OF INCOME OVER EXPENSES		30,948,857

CONDENSED BALANCE SHEET

As of December 31, 2004

ASSETS	
CURRENT ASSETS (PhP)	
Cash	41,445,086
Receivables	37,380,797
Inventories	49,176,780
Prepaid expenses	119,932
	128,122,595
PROPERTY, PLANT AND EQUIPMENT	4,203,854,777
OTHER ASSETS	885,145
TOTAL ASSETS	4,332,862,517
LIABILITY AND EQUITY	
CURRENT LIABILITIES (PhP)	21,338,241
OTHER LIABILITIES	3,030,330
TOTAL LIABILITIES	24,368,571
GOVERNMENT EQUITY	4,308,493,946
TOTA LIABILITIES AND EQUITY	4,332,862,517

Information Technology System

BSU continued to upgrade its equipment for the local network, connecting the Office of Student Affairs and enhancing the connectivity of the Research Complex. One computer laboratory was established at the Math, Physics and Statistics Department. The laboratory was equipped with a 12-pcs, 1 server and with complete internet connections and accessories, and the domain registration of BSU (www.bsu.edu.ph) was renewed for the year.

Student Enrollment and Student Information Systems were developed and pilot-tested. A Learning Management System, the Chiaroline for Distance Learning Module and E-Library in collaboration with PREGINET were also pilot tested.

The BSU web page was upgraded to level 3 as per ASPA-UN criteria.

Some IT staff went for short term training: Mr. Buford Laruan attended a training on Network Management and Distance Education in Belgium last July, 2004, Ms. Flordeliza O. Naje attended a training on Advanced International IT Management for Asia in Sweden last September, 2004. In-house seminars and trainings were also conducted to train other IT practitioners, faculty and staff of the University.

International Linkages

With the aim of enriching ties with various local and foreign entities, the university fully operationalized its International Relations Office (IRO). The IRO was established to facilitate the expansion of the university's networking with international agencies and also to promote resource complementation. IRO is under the BSU President's office and ably headed by Dr. Darlyn Tagarino as Director. The team is composed of designated college sector coordinators or their respective deans.

The IRO's primary vision is to make the university an internationally renowned entity nurturing humanity and the environment. With a mission of making BSU proactively building and sustaining international partnerships, it aims to institutionalize internationalization at BSU and

promote international cooperation and goodwill. The objectives of the office are: 1) initiate and sustain international partnerships for BSU stakeholders, 2) foster awareness and coordinate internationalization activities, 3) strengthen capabilities for internationalization and 4) establish links with foreign and/or local organizations.

The year 2004 was a productive one for the university in terms of enriching its ties with various international entities. The activities were aimed at fostering agreements and understandings that would help in strengthening the university's services.

Delegates composed of BSU President Dr. Rogelio Colting, BSU Vice President for Planning and Development Dr. Darlyn Tagarino, SLU President Fr. Paul Van Parijs and SLU Vice President for Academic Affairs Dr. Noel de Leon visited Vietnam from February 16 to 18, 2004. The objective of the trip was to consolidate efforts made on networking with concerned agencies and universities; develop a linkage with units that deal with similar crops and cropping systems in the highland areas and to study the IRO structure in the universities for possible application to BSU-IRO. As a result, two (2) memorandums of understanding were signed with Can Tho University and National Center for Technology Progress (NACENTECH). Details of the MOU may be seen at the preceding table.

The IRO director, made a trip to Belgium and Sweden from May 28- June 20, 2004 where she was able to study the structure of the International Relations Offices of three (3) universities and five (5) technical schools. While in Belgium, linkage opportunities were discussed to wit possible joint research projects with the Catholic University Louvainne and University of Gent, faculty and student exchange with technical schools (Hogescholen) on teacher training and nursing and student exchange with Catholic University Louvainne at Kortrijk (KULAK). In Sweden with Dean Julia Solimen of the College of Agriculture, discussions were made on possible joint research projects with the Ersta and Skondal University College of Stockholm and the Swedish Agricultural University in the fields of Social Science, GIS and weed Science as well as faculty and student exchange in Social Work.

General Administration

<i>Memoranda of Understanding entered into by BSU and Foreign Entities for the year 2004</i>					
Name of Entity	Location	Date Signed	Purpose	Objectives/aims	Duration
1. Cantho University	Vietnam	Feb. 19, 2004	Partnership	To explore opportunities of development of both universities such as staff/ student/ teacher exchange, common teaching and research programmes, distance education.	March 01, 2004 to Dec. 31, 2006
2. National Center for Technology Progress (NACENTECH)	Vietnam	Feb. 24, 2004	Partnership	To promote and implement research and outreach partnerships	March 01, 2004 to Dec. 31, 2006
3. Sangji University	South Korea	Sept. 20, 2004	Academic Exchange	Focuses on faculty, staff, researcher exchange, student exchange and the conduct of collaborative research.	Three (3) years from date of signing
4. Thermophilic Aerobic Oxidation (TAO) Co. Ltd.	South Korea	Sept. 21, 2004	Research Cooperation	To promote research cooperation and business with a view to contributing to the advancement of scientific research and technological development in environmental science under a global perspective and to the benefit of the international community at large.	Three (3) years from date of signing
5. Sangju National University	South Korea	Sept. 22, 2004	Student Exchange Program	To promote & implement student exchange programs for educational and research purposes and also to open joint degree programs.	Five (5) years from date of signing

Another proactive internationalization effort was conducted by the university president with the IRO Director, Dr. Sonwright Maddul and Dr. Evelyn Bayangan to South Korea on September 20-24, 2004. The team was invited by the Sangji University to give special lectures on specific topics to faculty and students.

This visit to South Korea resulted to the signing of a Memorandum of Understanding with the Sangji University and the Thermophilic Aerobic Oxidation (TAO) Co. Ltd. Another MOA with the Sangju National University for a continuing collaboration was inked.



MOU signing with Thermophilic Aerobic Oxidation (TAO) Co. LTD., South Korea

MOU signing with Sangji University, South Korea



The IRO team meets with Provost Mario Tabucanon Asian Institute of Technology, Bangkok, Thailand



MOU signing with Sangju National University, South Korea



Ribbon cutting to launch "Jerusalem on the Air" exhibit.

General Administration

Various initial talks were made with fifteen (15) universities in Asia and Europe. This was done during the attendance of four (4) members of the University's International Relations team to the ASIA-Link Forum held last November 19-21, 2004 in Bangkok, Thailand. The forum was conducted by the European Commission, which supports links with third-world countries through a range of programmes in higher education. This is aimed at reinforcing cooperation between higher education institutions in these countries and fostering mobility of students and scholars between Europe and the rest of the world. The team was composed of Dr. Darlyn D. Tagarino, Dr. Marian Grace Gascon, Dr. Salvacion Beligan and For. Marissa Parao.

During the same visit to Thailand, discussions of partnerships in research on agriculture, curriculum development on forestry, faculty-student exchange in nursing and English language learning for students were made during the visit to Chiang Mai University in Thailand. The team was also briefed on the structure and functions of the International Relations Office of the university. While at the Asian Institute of Technology in Bangkok, the BSU-IRO team was able to discuss possible partnerships in geo-engineering, natural resource and sustainable development.

The BSU President and Dr. Feliciano Calora Jr., Vice-President for Academic Affairs had initial discussions with foreign dignitaries when they paid a visit to Nanjing, China in collaboration with the China Jiangsu Service Center for Overseas Education last February 2004.

As a result of the discussions, an agreement was made that led to the sending of about sixteen (16) College of Home Economics and Technology (CHET) students for an internship to China in the field of food processing.

Apart from these efforts are the activities participated in by BSU students internationally and visits of foreign dignitaries and students to the university itself.

Such was the attendance of BSU delegates, namely, Alma M. Vicente & Marfeilyn B. Castro to the ICA Regional Cooperative Youth Seminar for Asia and the Pacific held in Kuala Lumpur, Malaysia on September 5-7, 2004. Both are BS in Agribusiness students and officers of the BSU Student Cooperative. BSU was chosen to represent Benguet Province in this international event.

The Tokyo University of Foreign Studies Dance Troupe paid a visit to the university and did a cultural presentation of the various dances of Japan. This was held last March 01, 2004 at the closed gymnasium of the university.

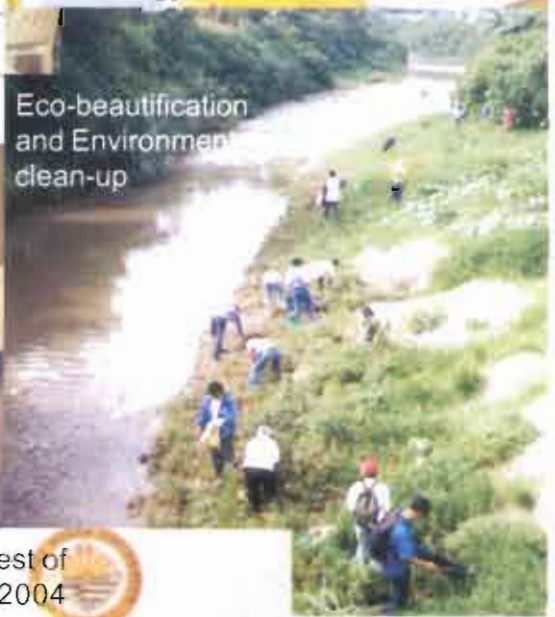
The Ambassador of Israel to the Philippines, His Excellency Yehoshua Sagi and Madame Hana Sagi visited the university to launch the "Jerusalem on the Air" exhibit held last July 2004 at the lobby of Administration Building. The event was graced by the presence of La Trinidad Mayor Nestor Fongwan, Benguet Province Governor Borromeo Melchor and Director Magdalena Jasmin, CHED-CAR.

March 2004 marked the beginning of Phase 2 of the Philippine Institutional Cooperation Program. This program is the continuing partnership between the Flemish universities of Belgium and Saint Louis University that started in March 1999. For the year just past, the PIUC contributed about 203 thousand euros (13.20 million pesos) to the strengthening of the SLU-BSU network, BSU Institutional Management and Policy Development, ICT and Library Development, strengthening of the ISRD and the establishment of the Semi-Temperate Vegetable Research and Development Center.

ACADEMIC AFFAIRS



Lecture on Wireless Fidelity using SMS Technology



Eco-beautification and Environment clean-up



Seminar on Peer Counselling

Hon. Luis P. Lorenzo Jr. was the guest of honor and speaker during the 2004 graduation



Academic Affairs

The year 2004 manifested anew the dynamism and commitment of the University academic sector to provide quality service to its clientele. Despite budgetary constraints during recent years, the University was able to effectively sustain its operation and stand up to its distinction of being a premier University in the Cordillera.

Proof to this is its significant contribution to the development of the region in particular, and the country in general. BSU students and graduates continue to perform well in various licensure examinations and in other national, regional, and local competitions. The University also boasts of its faculty and staff who continue to excel in various disciplines and fields of specialization.

Academic Units and Allied Offices

The academic sector consists of eight (8) colleges, two (2) academic institutes, a Graduate School, and an "Open University". The support offices, on the other hand, include the University Registrar's Office, Library Services, Health Services, and the Office of Student Affairs. In addition, satellite campuses in Buguias and Bokod, both in the province of Benguet, also complement the work of the main campus by offering other relevant academic programs.

To ensure that all academic-related programs are implemented efficiently, each office is managed by either a Dean or a Director who acts in coordination with the Vice President for Academic Affairs and the University Academic Council.

Academic Programs

The University continues to offer relevant academic programs that are responsive to the needs of the times. These are in the areas of agriculture and related sciences, education, resource management, nursing, and administration. As of 2004, the curricular programs include 39 graduate and 16 undergraduate degree programs, five (5) non-degree programs, and eight (8) distance education courses (Figure 1). Whenever appropriate, curricular programs are updated and/or revised to include more pertinent courses.

Enrollment

Enrollment in the various academic programs in 2004 is given in Table 1. Total enrollment varied from 1,621 in summer, to 7,299 during the first semester, and 6,580 during the second semester.

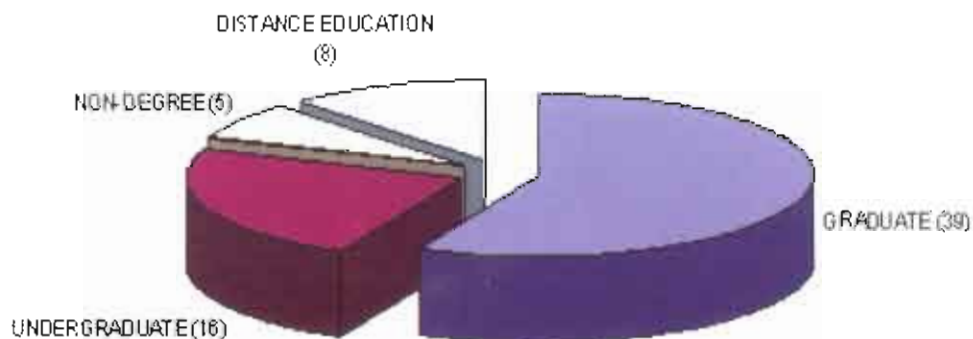


Figure 1. Number and distribution of curricular programs

Table 1. Enrollment by degree program from summer 2004 to the 2nd semester, 2004-2005

Degree Program	Summer 2004	1st Semester, 2004	2nd Semester, 2004-2005
<i>Graduate Program</i>			
PhD in Agronomy	1	4	5
PhD in Agricultural Education	-	1	1
PhD in Educational Management	-	29	28
PhD in Horticulture	4	5	7
PhD in Language Education	1	7	8
PhD in Rural Development	10	36	28
PhD in Science Education	3	4	3
EdD in Educational Management	3	5	4
MS in Agricultural Education	6	8	5
MS in Agronomy	2	8	7
MS in Animal Science	1	2	3
MS in Biology	11	15	15
MS in Economics	-	1	1
MS in Entomology	-	4	7
MS in Extension	-	1	1
MS in Forestry (Silviculture)	3	5	5
MS in Forestry (Watershed Management)	-	4	4
MS in Horticulture	1	9	8
MS in Plant Pathology	4	4	4
MS in Rural Development	5	18	20
MS in Soil Science	1	6	5
MA in Applied Statistics	2	11	11
MA in Chemistry	6	7	9
MA in English as a Second Language	46	47	43
MA in Filipino as a Second Language	23	17	9
MA in General Science	15	15	14
MA in Home Economics	11	14	10
MA in Mathematics	27	28	35
MA in Physical Education	39	32	39
MA in Physics	8	11	9
MA in Technology & Home Economics	2	16	4
MA in Social Studies	29	14	30
MAEd in Contextualized Instruction	1	-	-
MAEd in Educ'l. Adm. & Supervision	50	54	40
MAEd in Elementary Education	83	79	55
MAEd in Guidance & Counseling	15	20	27
Master in Public Administration	23	53	58
Master in Resource System Mgt	1	1	1
<i>Open University Programs</i>			
Master in Community Development	-	17	23
Master in Cooperative Management	-	5	6
Master in Development Communication	-	12	14
Master in Human Resource Management	-	24	30
Diploma/Master in Urban Management	-	2	-
Master in Non-Formal Education	-	1	1
Diploma in Training Management	-	2	3
Subtotal	437	658	640

Academic Affairs

Table 1 continued...

Degree Program	Summer 2004	1st Semester, 2004	2nd Semester, 2004-2005
B of Elementary Education	61	871	869
B of Secondary Education	86	1144	1034
BS in Agriculture	209	1333	1014
BS in Agribusiness	53	222	178
BS in Agricultural Education	61	213	191
BS in Agricultural Engineering	105	365	346
BS in Applied Statistics	19	85	99
BS in Development Communication	28	167	157
BS in Environmental Science	53	242	219
BS in Entrepreneurship Technology	-	38	37
BS in Forestry	72	242	216
BS in Home Economics	36	326	327
BS in Information Technology	29	188	163
BS in Nursing	234	452	427
BS in Nutrition & Dietetics	37	144	152
Doctor of Veterinary Medicine	27	394	383
Subtotal	1,110	6,426	5,812
Diploma in Physical Education	15	6	12
AET	32	95	-
Diploma in Agro-Forestry	25	57	71
Forest Ranger Certificate Course	2	3	1
Certificate in Automotive Technology	-	54	44
Subtotal	74	215	128
Grand Total	1,621	7,299	6,580

In the summer of 2004, 67.9% of the enrollees registered in the different undergraduate programs. Twenty-seven percent (27%) enrolled in the various graduate programs while the remaining 4.5% enlisted in the short-term non-degree courses.

The influx of freshmen during the first semester brought the total enrollment to 7,299. As expected, majority or 88% of the enrollees enlisted in baccalaureate degrees. The highest numbers of enrollees were in education and agriculture courses with 2,227 and 1,555 students, respectively. Enrollees in the post-graduate degrees accounted for about 9% of the total enrollment while the remaining 3% constituted those in the non-degree programs.

A slight decrease in enrollment was, however, recorded during the following semester. Enrollment during the second semester dropped to 6,580 corresponding to a decrease of about 9.8% from the previous semester. This may be attributed to

the fact that a number of students either graduated or transferred and dropped out of school.

Graduates

The University produced a total of 1,868 new graduates (Table 2) in 2004. Of this number, 81 or 6.3% graduated with advanced degrees; 1,103 (85.9%) finished their baccalaureate degrees; and 100 (7.8%) completed short-term technical-vocational courses.

The 79th Annual Commencement Exercises held on April 16, 2004, saw 1,284 graduates from different courses and disciplines. Topping the year's batch of graduates was Lou Franz G. Mula (BSDC) who graduated *magna cum laude*. Eighteen (18) other graduates who were awarded *cum laude* honors joined her.

Graduates of the Bachelor of Secondary and Elementary Education degrees formed bulk of the

alumni with 202 and 178 graduates, respectively. The least was in the BS in Agricultural Engineering degree with only 17 graduates (Table 2).

In the graduate level, 13 graduates were conferred doctorate degrees while 68 others completed their master's degrees. The Secretary of the Department of Agriculture, Hon. Luis P. Lorenzo, Jr. was guest of honor and speaker during the said affair.

Student Awards and Achievements

Students and graduates continue to perform well in various national and regional competitions (Table 3). Three BSU students, Leah Foy-os (BSN), Jennifer Kindipan (BSDC), and Fernando Venturina, Jr. (DVM), were among the Ten Outstanding Students of the region and became finalists in the national search for the 2004 Ten Outstanding Students of the Philippines (TOSP). Another student, Marychiel Minas (BSE), was the regional champion of the Milo Regional Elimination Race and placed 9th in the National Milo marathon.

Ms. Jennifer Lagilag also figured prominently in the recently concluded Wushu World Cup. She placed second and received a Silver Medal for her feat.

Ms. Ilene Basitan (DVM) who represented the University during the 1st Pathways Small Grants Competition sponsored by the Pathways to Higher Education of the Ateneo de Manila University was also awarded the "Best Idea Award". Said award carries with it a grant amounting to P40,000.00 for the implementation of a development project submitted during the competition.

A number of graduates also performed notably in the board examinations administered by the Professional Regulation Commission (PRC). Ms. Lea Foy-os ranked 12th in the Licensure Examination for Nurses while Mr. Fernando Venturina, Jr. and Mr. Oliver Timbreza ranked 3rd and 7th respectively, in the 2004 Board Examination for Veterinarians. Mr. Venturina is also a recipient of the coveted President Gloria Macapagal-Arroyo Excellence in Leadership Award.

Performance of Graduates in Licensure Examinations

One way of assessing the quality of education an institution provides its students is to examine the performance of its graduates in the board examinations. Like in previous years, BSU graduates continued to perform well in the various licensure examinations administered by the PRC.

Table 4 contains a summary of board examinations administered during the year. It also presents a comparison of the national and institutional passing percentages of the examinees.

Outstanding accomplishments were obtained in the fields of nursing, veterinary medicine and education where BSU passing percentages were much higher than those observed in the national level. The highest passing percentage was in nursing where 71% of the BSU examinees passed. An examinee from the same batch even ranked 12th in the said board examination. Two other BSU graduates also made it to the top ten examinees in the licensure examination for veterinarians, taking home the 3rd and 7th slots during the said examination. The performance of graduates in the other fields were also at par with other schools offering similar programs.

Student Welfare and other Services

The Office of Student Affairs (OSA) is the unit in charge of dealing with student opportunities for intellectual, social, emotional and physical growth. As such, it renders guidance and counseling, information, inventory and other services relevant to student welfare and development.

Among other things, the office screened applicants for enrollment, provided successful applicants with the proper guidance and support in both their financial and housing needs, encouraged the formation and establishment of proactive student organizations, and provided prospects for student learning and personal development.

For the year under review, a total of 1,166 students benefited from various scholarship grants made available to deserving students (Table 5). About 60%

Academic Affairs

Table 2. Number of graduates by degree program from 2nd semester, 2003-2004 to 1st semester 2004-2005

Degree Program	2nd semester, 2003-2004	Summer, 2004	1st Semester, 2004
Graduate Programs			
PhD in Agricultural Education	1	-	-
PhD in Educational Management	-	-	1
PhD in Horticulture	-	1	-
PhD in Rural Development	6	1	-
EdD in Educational Management	1	2	1
MS in Agricultural Education	1	-	1
MS in Agronomy	-	-	1
MS in Forestry (Watershed Management)	1	-	-
MS in Plant Pathology	-	-	2
MA in Applied Statistics	1	-	-
MA in Chemistry	1	-	-
MA in English as a Second Language	-	-	1
MA in Filipino as a Second Language	3	-	1
MA in Mathematics	2	1	-
MA in Physical Education	4	-	1
MA in Social Studies	1	1	1
MAEd in Educ'l. Adm. & Supervision	8	1	1
MAEd in Elementary Education	3	2	4
MAEd in Guidance & Counselling	3	-	1
Master in Public Administration	4	-	2
Open University Programs			
Master in Community Development	4	-	-
Master in Development Communication	2	-	-
Master in Human Resource Management	3	-	-
Diploma/Master in Urban Management	4	-	-
Master in Non-Formal Education	1	-	-
Subtotal	54	9	18
Baccalaureate Programs			
B of Elementary Education	178		
B of Secondary Education	202		
BS in Agriculture	129	4	34
BS in Agribusiness	25	10	2
BS in Agricultural Education	63		
BS in Agricultural Engineering	17	2	4
BS in Applied Statistics	20	-	-
BS in Development Communication	23	-	-
BS in Environmental Science	48	-	9
BS in Entrepreneurship Technology	30	-	-
BS in Forestry	31	3	8
BS in Home Economics	73	-	-
BS in Information Technology	25	-	-
BS in Nursing	84	-	-
BS in Nutrition & Dietetics	50	-	-
Doctor of Veterinary Medicine	29	-	-
Subtotal	1027	19	57
Diploma in Physical Education			
Associate in Entrepreneurial Technology	23		
Diploma in Agro-Forestry	24	-	-
Certificate in Automotive Technology	50	-	-
Forest Ranger Certificate Course	2	3	1
Subtotal	96	3	1
Grand Total	1284	31	76

Table 3. Student awards and achievements

STUDENT/COURSE	AWARD	AWARD-GIVING BODY
Lea Foy-os (BSN)	10 Outstanding Students of the Philippines - CAR 12th placer, Licensure Examination for Nurses	Professional Regulation Commission
Marychiel Minas (BSE)	3rd place, CHED Palaro (10 km) 4TH place, Greenhills Marathon (8 miles) 9th place, Milo National Marathon (42.195 km) Champion, Milo Regional Elimination Race	
Fernando Venturina (DVM)	3rd placer, Veterinary Licensure Examination President Gloria Macapagal-Arroyo Excellence in Leadership Award 10 Outstanding Students of the Philippines - CAR	Professional Regulation Commission
Oliver Timbreza (DVM)	7th placer, Veterinary Licensure Examination	Professional Regulation Commission
Jennifer Kindipan (BSDC)	10 Outstanding Students of the Philippines - CAR	
Jennifer Lagilag	Silver Medalist, Wushu World Cup Tournament	
Ilene Basitan (DVM)	Great Idea Award - 1st Pathways Small Grants Competition	
Jonathan Fong Canilang (CA)	11th Placer, Licensure Examination for Agriculture	Professional Regulation Commission

of the scholars benefited from grants and privileges offered by the University, proof of its sincere concern for the welfare of its students.

During the same period, 78 student organizations representing various sectors of the academic community were also given recognition. Cognizant of their role in the University, outstanding organizations and student leaders were provided with awards and incentives to encourage others to perform better next time.

Selected students were also allowed to participate in various seminars that included an international youth seminar held in Selangor, Malaysia. Two senior BSAB students joined the said event.

The University Health Services, on the other hand, caters to the health needs of the University population composed mainly of students, faculty and employees including their dependents and other members of their households. Occasionally, non-BSU personnel like visitors and residents of nearby barangays also come for treatment.

In 2004, the medical clinic performed a total of 4,017 physical examinations; 3,063 consultations; and 4,590 tests and vaccinations. In addition, the

dental clinic complemented this activity significantly by performing 3,403 examinations and providing treatment to about 1,340 patients.

The University Library Services had started making use of modern technology. It had extended its local area network (LAN) to four other college libraries (CA, CEAT, & CVM) to enable users' access to all resources available in the main library through the Library WEB OPAC in the BSU Website. Moreover, the university was also able to acquire a total of 1,431 new titles of books, journals and periodicals in 2004 to beef up its current holdings.

Academic Affairs

Table 4. Performance in licensure/board examinations

LICENSURE/BOARD EXAMINATION	DATE OF EXAMINATION	NUMBER OF EXAMINEES	NUMBER OF PASSERS	BSU PASSING (%)	NATIONAL PASSING (%)
Agriculturists	July 13, 2004	172	39	22.17	25.40
Agricultural Engineers	July 2004	17	6	35	37
Teachers (Elementary)	2004			58	27
Teachers (Secondary)	2004			48	27
Nutritionists	July 2004	46	11	24	49
Foresters	June 2004	53	18	34	35
Veterinarians	2004	32	15	45	31
Nurses	June 2004	68	48	71	55

Current Efforts and New Initiatives

Efforts to develop new programs and improve instruction are regular undertakings in the Academic Sector. These are also being done to comply with the requirements set by regulatory and accrediting bodies like the CHED, TPAE, PRC, and AACCU, Inc.

While no new programs have been opened in 2004, preliminary studies are now being done to develop new ones. Among the new programs being considered are the following:

1. BS in Teaching Agro-Industrial Technology (CTE);
2. BS Natural Resources Management (CF); and
3. MA major in Nursing (GS).

Also undertaken during the year were the following activities:

1. Revision of the BSE Library Science curriculum to BS in Library and Information Science;
2. Revision of the BS in Agriculture program;
3. Revision of the BS in Agricultural Engineering curriculum;
4. Updating of the BS in Forestry curriculum;
5. Preparation and updating of syllabi;
6. Involvement and participation of students in actual research and development projects; and
7. Use of computers and multi-media in instruction.

Bio-diversity Park

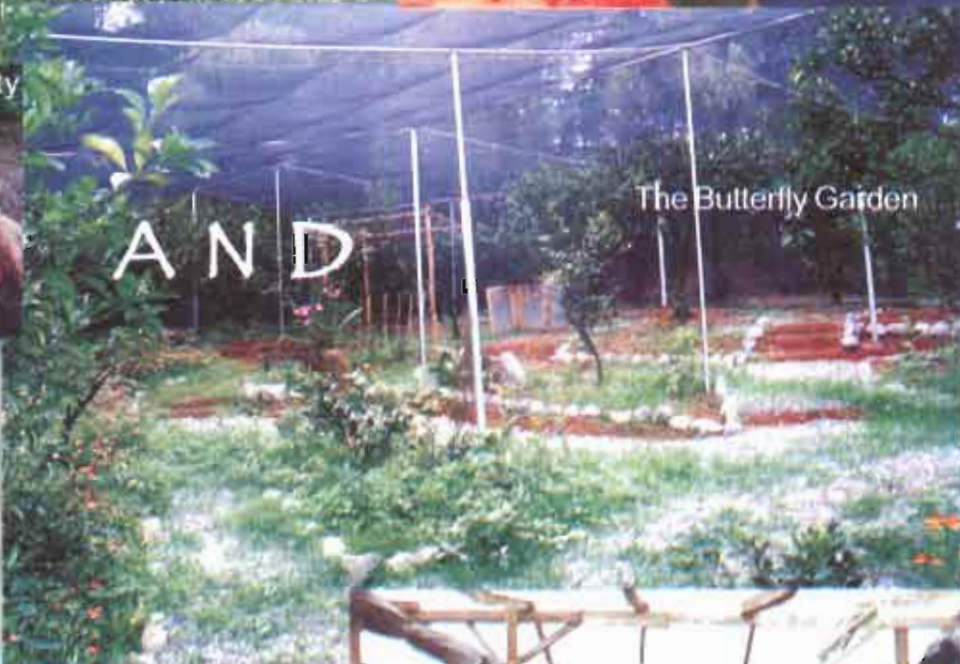
RESEARCH

New Sweet Potato Variety
"Bengueta"



The new potato variety
named Ganza

EXTENSION



The Butterfly Garden

AND



Research and Extension

The University has undertaken 38 research projects, 13 of which have been completed and 25 of which are on-going. These were implemented by the four research institutes namely, the Horticulture Research and Training Institute (HORTI), the Northern Philippine Root Crops Research and Training Center (NPRCRTC), the Institute of Highland Farming Systems and Agroforestry (IHFS), and the Institute of Social Research and Development (ISRD).

For the year, a new center was born through the support of the Philippine Institutional University Cooperation Program funded by Belgium and with the endorsement of the Vegetable Commission. This is the Semi-Temperate Vegetable Research and Development Center (STVRDC) that will provide the cutting edge scientific effort to make Cordillera vegetables globally competitive.

The various Colleges have likewise completed a total of 22 research studies. These include the College of Agriculture (4), College of Home Economics and Technology (1), College of Arts and Sciences (2), College of Forestry (1), and College of Teacher Education (3). The College of Nursing pursued 11 research studies as part of its students' academic requirements.

In extension, seven farmers' participatory technology adaptation projects (FPTAPs) were completed and the other three FPTAPs are still being undertaken. The BSU On-the-Air, a regular 10-minute radio program which aimed at disseminating various technologies in vegetable farming, ornamentals and fruits; health care and other relevant topics was broadcast over DZWT with a total of 300 hours airtime. Resource persons were from the various research institutes and Colleges with the Office of the Director of Extension Services as the lead unit.

The University delivered technical assistance to farmer-entrepreneurs and agricultural technicians from local government units in terms of training programs, workshops and seminars. The expertise of the University

researchers in tissue culture, vegetables, fruits, root crops and ornamental crop production; integrated pest management; integrated nutrient management; and post-harvest handling were tapped. Sample seeds and planting materials of promising lines developed at BSU were dispersed to interested farmer-entrepreneurs. Agricultural technologies were exhibited on important occasions including the University Charter Day, Benguet Day, La Trinidad Town Fiesta, and the Regional Symposium and Research Highlights Presentation hosted by the Highland Agriculture, Forestry and Natural Resources Research and Development Consortium (HARRDEC).

Demonstration farms, greenhouse production of high value crops and farmers' field schools were put up to showcase innovations in vegetable and root crops production. All of these undertakings were made possible through our collaborative efforts with line government agencies, international funding organizations, local government units, academic institutions, private sector entities, and farmer-leaders.

Highlights of Technologies and Information

The BSU-Po-5(Ganza) is a National Seed Industry Council (NSIC) potato variety released for high and mid elevation production areas.

The BSU Spo-2 (Bengueta) is a National Seed Industry Council (NSIC) sweetpotato variety released for mid and high elevation production areas.

"Combulon wine" (fermented wine from camote and bulon fruit) developed at Banga-an, Banaue, Ifugao has an alcohol and sugar content of 8.12% and 5.8%, respectively.

In the isolation and utilization of yam anthocyanin, extraction of pigments from boiled tubers and peels is better than from fresh.

For the production of GO seeds in the greenhouse, improved technologies for potato seed production include the use of different planting materials (in-vitro plantlets, pea-sized GO tubers,

Research and Extension

and single-node cuttings). For G1 seed production, pea-sized GO tuberlets and repetitive harvesting of GO seeds double the number and weight of harvests.

Calcium hypochlorite (12kg/ha), lime, urea, lime + urea, and clean planting materials are among the effective control strategies for bacterial wilt of solanaceous crops.

Participatory technology development for potato seed production can be achieved through the establishment of farmer-based seed nurseries.

Heat build-up from sunlight occurs with the use of sand as a seedfruit bedding medium, thus inhibiting replication and weakening of virulence of mosaic tymovirus within the chayote fruits. Planting alnus trees among chayote provides support of vines at the same time enriches the soil, being a nitrogen-fixing tree.

Strawberry cultivar Tioga (check) outyielded selected hybrid lines. However, Sweet Charlie x Toyonoka and Selva x Toyonoka have good potential for production because of their moderate resistance to mites and fruit rot and have acceptable yield and quality.

Consumers have no specific strawberry variety preferences; however, Agsapa, a cross between Californian Selva and Japanese Toyonoka; and Sweet Charlie (USA) are more popular.

The natural enemies of spider mites are *Cecidomyiid* larvae, *Amblyseius* sp., six-spotted thrips, *Paederus* beetle, and *Stethorus* beetle. However, they are few and unable to reduce the population of spider mites to their non-injurious level.

Documents are available on postharvest handling practices on major highland vegetables; actual loss assessment at various handling points; inflow, outflow, percentage of sold and unsold vegetables, transport services, and trading manpower at the La Trinidad Vegetable Trading Post; and stakeholders' income share in handling highland vegetables.

BSU selection 002, an *in vitro* cultured carnation develops more and longer roots and

nodes using liquid MS (1/2 strength macro, 1/2 strength micro, full strength vitamins, 1 ppm NAA) with floral foam support system.

Rose cutflower yield is higher in cultivars Konfeti, Lara Pink, and Queen Elizabeth. Extra long stem cutflowers are harvested in moderately and slightly pruned Grand Gala and Konfeti. Vaselife is longer in moderately and slightly pruned Queen Elizabeth, Lara Pink, Demi, and White Teneke and in hard pruned Golden Times, Nableese and Red Success.

Microbial antagonist of chrysanthemum white rust remains viable for one month after incubation at 5°C in the following carrier materials: *Verticillium* sp. -potato starch; *Pseudomonas* sp. - arrowroot and canna; and *Flavobacterium* sp. - canna, arrowroot, galiang, and taro.

Diseases (148) of 20 crops were described and documented, 87.16% of which are caused by fungi; 6.76%, bacterial 2.03%, nematodes; and 4.05%, viruses; 95% were identified, 5% to be verified.

Four and eight vertical branches maintained in rejuvenated coffee using the bending method gave significantly higher arabica yield.

Bivoltaine silkworms with yellow cocoons are at par with the white ones along yield and adaptability.

The use of rice hull ash as bed desiccant in silkworm rearing is as effective as lime. In addition, it is locally available.

Five fungal pathogens associated with coffee plants were identified in survey done in 28 Arabica coffee-growing areas in Abra, Benguet, and Mountain Province. From these, *Cercospora coffeicola* Berk. & Cke has the highest percentage of prevalence followed by *Hemileia vastatrix* Berk. & Cke, *Colletotrichum coffeanum* Noak and equally the least in prevalence were *Pestotlotia* sp. and *Verticillium* sp.

Dandellion (*Centrella aseatica*) has anti-microbial properties against *Salmonella*, *E. coli* and *Streptococcus agalactiae*.

Research and Extension

Land productivity in terms of income derived from two cropping periods is greatest in sweet pepper-cabbage followed by cabbage-carrot, cabbage-lettuce, potato-cabbage, and cabbage-potato succession cropping. Broccoli cultivation during the off (wet)-season under greenhouse from Jul-Sept. is still highly profitable.

Fresh pod yield is highest in garden pea entries 89-001 and CLG at 4.3 and 4.0t/ha, respectively. Both have light green pods.

In advanced replicated yield trial of salad tomato lines, highest marketable yield is obtained from S-610 at 42.9t/ha. High yield is also taken from 20-05, 20-07, 20-08, and S-608. Pole snap bean entries Blue Lake and B-12 have the highest marketable yield at 35.3 and 31.5 t/ha, respectively.

Biofumigation treatment with marigold, mustard and radish on carrot and sunflower, radish and mustard on celery suppressed root-knot nematode population. Soil treatment with 10% garlic extract is a potential biocontrol of *Fusarium* wilt infecting chrysanthemum.

High yield of cabbage can be obtained with the application of 90 kg N/ha, 135 kg P_2O_5 /ha, and 90 kg K_2O /ha under tater stress condition.

Extension Highlights

BSU-On-The-Air. Aired a variety of topics on agriculture, forestry, health, and related subjects at DZWT from 5:20 to 6:00 AM everyday from Monday to Friday. The program is anchored by Prof. Silvestre L. Kudan. Seven subject matter specialists from the different colleges and institutes of the University became guests in the program.



Sweetpotato cuttings ready for dispersal to Tayum, Abra

Participatory Technology Adoption program. Activities included gathering data, monitoring and assisting the cooperators in various aspects of each project; namely, Agroforestry, Passion Fruit Production, and Old Coffee Tree Rejuvenation. For Agroforestry, G-melina, mahogany, rambutan, and orange trees grown in Banengbeng, Sablan and Ambongdolan, Tublay are thriving well except for the growth as a result of disease incidence and poor soil. For passion fruit production, those grown in kniffin trellis gave a higher ROI of 1.48% compared with the traditional practice at 1.12%. For the Old Coffee Tree Rejuvenation, the first berry fruit initiation was observed on more matured rejuvenated plants.

The LBP-BSU-TPC Funded Projects. Completed projects piloted commercially were the strawberry, beekeeping, and oyster mushroom. Four new projects: Improved Seed Potato Production, Yam Production, Red Wine Production, and Honey Production have been approved and ready for validation/implementation in 2005.

Quick Response Services. Conducted farmer-meetings and farm visits in Labueg, Kapangan and Lusod, Kabayan (Benguet).

Strawberry Production Demonstration. Demonstrated practices on nursery management – maintenance of mother plant and planting materials in cold storage, and fruit production, which includes planting and maintenance of demo farm.

BSU-Plastro Demo Greenhouses. Harvested in the 1st cycle of production were 485 kg romaine lettuce, 464 kg iceberg lettuce, and 282 kg broccoli. Romaine lettuce produced the highest ROI.



Production of lettuce under Plastro Demo Greenhouses

Other Extension Activities

To some extent, extension and community outreach projects of the University involved infrastructure projects such as the electrification of far-flung barangays not yet served by the grid. Foremost are the microhydro projects of the BSU-Affiliated Non-conventional Energy Center (BSU-ANEC), which are now benefiting several barangays in the region.

The projects provide off-grid barangays access to clean energy for lighting and rice milling. The ANEC is currently maintaining five (5) village-level projects of this nature in the provinces of Benguet and Ifugao.

Other extension services such as publications, and some rendered by the different colleges and institutes of the University are shown in the following table.

Extension Services rendered by the Various Research Institutes and Colleges

ACTIVITY	VENUE	DATE	SPONSOR	INVOLVEMENT
Exhibit - display of horticultural technologies	18th University Day - BSU Regional RDE Highlights Symposium	January 12-16, 2004 August 17-18, 2004	BSU HARRDEC	HORTI project leaders and staff
Publication - Management Practices Against Chayote Mosaic Tymovirus	BSU Research Journal	March and June 2004	BSU	Author: Julio S. Ligat
Chayote Research and Development	BSU-HORTI, V1 N1	Copyright 2004	BSU-HORTI	Author: Julio S. Ligat
Postharvest Handling and Marketing Updates for Potato and Major Highland Vegetables	BSU-HORTI, NPRCRTC project report	June 2004	BSU-HORTI, NPRCRTC, DOST-CAR	Authors: Violeta B. Salda, Percival B. Alipit
Pesticide use and handling	Kapangan, Benguet	January 19, 2004	PIUC	Resource persons: Bonie S. Ligat, Casiano S. Pagadan
Postharvest losses and preventive measures	Kabayan and La Trinidad, Benguet	February 2004	BSU	Resource Person: Violeta B. Salda
National ornamental RDE network and vegetable and ornamental development program	ATI-NTC	February 20, 2004	DA-BAR	Resource Persons: Luciana M. Villanueva, Vilma D. Alejandro
Strawberry culture	Davao City	March 2004	SADCI	Lecturer: Danilo P. Padua
Vegetable Congress - insect pest management	BSU	April 29, 2004	Syngenta, Phil.	Resource Person: Eulogio V. Cardona, Jr.
Appropriate postharvest handling and quality management of potato and vegetables	BSU	April 28, 2004	Syngenta, Phil	Resource Person: Violeta B. Salda
Walk-in technical assistance - vegetable cultivation and ornamental horticulture	BSU	January - Dec. 2004	BSU	Resource Persons: Percival B. Alipit Araceli G. Ladlad

Research and Extension

ACTIVITY	VENUE	DATE	SPONSOR	INVOLVEMENT
Plant tissue culture	BSU	February - Sept. 2004	BSU	Lecturer : Vilma D. Alejandro
Public consultation - Philippine standards for vegetables and ornamentals	Baguio City	July 14-15, 2004	DA-BAFPS	Resource Persons: Percival B. Alpit, Violeta B. Salda, Leoncia L. Tandang, Araceli G. Ladlad, Vilma D. Alejandro
Vegetable crop production and hillyland farming system	BSU	September 30, 2004	BSU	Lecturer : Percival B. Alpit
Integrated pest management	Mankayan, Benguet	October 29, 2004	Syngenta, Phil	Lecturer : Bonie S. Ligat
Culture of ornamental and medicinal plants	BSU	October 16, 2004	BSU	Resource Person: Araceli G. Ladlad
Seed dispersal of promising lines of bean, pea, tomato, and pechay	Country wide	January - Dec, 2004	BSU - HCRS	Leoncia L. Tandang
Provided BSU strawberry lines for trial planting	Tagaytay and Palawan	October-Dec, 2004	BSU	Daniilo P. Padua
Seminar - Workshop on the different elements of theater arts in teaching language and literature	Strawberry Hall, RSDC, BSU	April 3 - 4, 2004	BSU College of Arts and Sciences	English and Filipino teacher-participants from the Dept. of Education
Information dissemination on indigenous issues and concerns	Sagpat, Kibungan, Benguet	Oct. 25 - 26, 2004	Social Science Department	
Seminar-Workshop on "Mga Kaalaman sa Teatro - Mapaang Pagsulat ng Iskript at Direkting, Pagpapakitang-turo sa Binagong Kurikulum sa Paagtuturo/Pamamahala"	DOST Building, Baguio City	Feb. 6- 8, 2004	Department of Humanities	Filipino teachers of PCNHS and selected English and Filipino teachers of Humanities Department
Presentation of the play "Sa Pugad Cordillera"	PFVR Gym, Baguio City	February 26, 2004		PCNHS faculty and stu- dents, Baguio public viewers
Conducted inspection/visit to provide assistance in the evaluation and development of the natural resources of Alfonso Castaneda, Nueva Vizcaya	Alfonso Castaneda, Nueva Vizcaya	April 2004	College of Forestry	Municipal Environment and Natural Resources Office
Seminar on forestry related to environmental issues	Benguet Pine Hall, College of Forestry, BSU	Aug. 28, 2004	College of Forestry	35 BSND students and 29 BEE participants
Medical mission	Culiang, Kibungan	Feb. 13-15, 2004	College of Nursing	
Training-Workshop on Impact Assessment of R&D Programs on Agriculture and Natural Resources	LB-BSU TPC Multi-purpose Hall	April 26 - 30, 2004	HARRDEC	26 participants from HARRDEC member agencies and line agencies of CAR
Potato Production Course for Beginners	NPRCRTC Hall	Oct. 26-28, 2004	NPRCRTC	Participants were 4 Agricultural Technicians of Dolores, Quezon Province
Orientation Seminar on Sweetpotato Production	NPRCRTC, BSU	Nov. 4, 2004	NPRCRTC	15 LGU Officials and farmers from Tayum, Abra



Strawberry Technology Pilot Project



"Combulan Wine"
Fermented wine from camote and bulon fruit



Rose cultivars



The new building of the Sericulture Project



Farmer-Based Potato Seed Nursery in Bauko, Mt. Province

Research and Extension

Awards

BSU garnered 4 awards during the HARRDEC Regional R-D-E Symposium, Farmers Forum and Rice Festival on August 17-18, 2004 as shown in the following table.

AWARD	TITLE OF PAPER	RESEARCHERS
Best Paper Category		
1st Place	Management of Bacterial Wilt (<i>Ralstonia solanacearum</i> Yabuuchi) in Potato	Jocelyn C. Perez Grace S. Backian Teresita Masangcay
3rd Place	Antibiotic Sensitivity and Pathogenicity Testing of Salmonella Isolates from Swine	Criselda Battad
Best Paper Development Category		
1st Place	Compendium of Diseases of Crops with Importance in the Cordillera	Asuncion Nagpala, Lily Ann Lando, Luciana Villanueva, Janet Luis, Jocelyn Perez, and Andres Basalong
2nd Place	Characterization of Insect Pests, Diseases and weeds in CASCADE-Covered Municipalities	Rosana Mula, Asuncion Nagpala et al.
1st Place	Institutional Booth Competition	Benguet State University

Special Development Programs

Philippine Institutional University Cooperation Program

Project 1. Strengthening the SLU/BSU Network

Project 2. Institutional Management – Institutional Benchmarking with SLU Planning with Prof. Gellynck on Institutional Management

Project 3 – ICT Development
Investment Costs = EUR 36,169
IT equipment

- 1 unit IBM Laptop
- 3 units PC Monitors
- 4 units Wireless connectivity equipment
- 12 units PC for the Basic IT course
- 1 unit Sanyo LCD
- Renew bsu.edu.ph registration
- Purchase GIS software (Geomatica)
- 1 package MSDN Software Academic License

Operating Costs = EUR 10,215

- Digital Content Authoring & Delivery – June 21 – 25, 2004
- Linux Network Services Dec. 09 – 10, 2004
- Recycling scholarship – Buford Laruan
- MS local Almario Abenoja
- MS Local Paul Garcia Jr.
- Partial Support to:
- Advanced IT Mgmt Training - Flordeliza Naje
- ICT Training in Teacher Education – Percyveranda Lubrica

Joint Activities with SLU

- Faculty exchange faculty from SLU to teach IT subjects:
- 1st Sem. – 2 subjects and 2nd Sem. – 1 subject
- One month joint seminar of students and faculty held in SLU every Sunday for first semester

Research and Extension

- Host to seminars and workshops:
 - Regional – 15
 - National - 6
- Testing Center for the National Computer Center (NCC),
- IT Proficiency Examination
 - Video conferencing and on-line seminar for NCC course
- Library books are now protected with electronic security system
- Pilot test - swiping of students' ID to monitor library attendance statistics
- Mrs. Flor Calias, PIUC scholar at Saint Louis College (Master in Education Sc)
- Recycling of Ma. Teresa R. Marquez - STIMULATE Training at VUB, Belgium
- Sent two (2) ULS personnel for ICT training Basics of networking) to support library automation program Joint trips/trainings with SLU Staff

Project 4 - Library Development

- In-house Bookfair from July 5-9, 2004
- Faculty selected books required for BSU curriculum offerings
- Priority for book acquisition was given to CA, CVM, CF and CEAT
- Renewal of journal subscription from EBSCO
- Spent Budget for Books – 251 book titles with 329 volumes USD6,600.23 and P639,466.80
- Purchased Encyclopedia Americana 2003/ 154 book titles selected by faculty or the end user
- Library WEB OPAC can now be accessed via BSU website. Four (4) College Libraries are now connected to LAN (CA,CEAT,CN & CVM)

Project 5 - Strengthening the Institute of Social Research and Development

- Purchased Canon Power Shot Digital IXUS 430 amounting to P27,950.00 and Heavy duty photocopier machine Aficio 550 RC worth P185,000.00.
- Dr. Ma Klondy T. Dagupen, Dr. Joel Lubrica, Dr. Sonwright B. Maddul and Dr. Ma. Corazon Somyden attended the "Applied Research on Economic

Sciences" last February 16 to March 15, 2004 at the University of Gent, Belgium.

- Dr. Ma. Klondy T. Dagupen, Dr. Gilda B. Jacalan, and Dr. Ma. Azucena Lubrica attended the "Training on Research Methodologies for Socio-Economics R & D Agenda" last June 7-11, 2004 at PCCARD
- Dr. Ma. Klondy Dagupen, Prof. Leopoldo N. Tagarino and Prof. Evangeline Cungihan attended the "45th National PAEDA Convention last October 12-13,2004 at the Philippine Agricultural Economics and Development Association (PAEDA) Office.
- Dr. Ma. Klondy Dagupen and Dr. Darlyn D. Tagarino attended the 1st Mindanao Vegetable Congress last Oct 13-14, 2004 at the Northern Mindanao Vegetable Producers' Association.

Researches funded by the project

Completed

- a) Consumers' Attitude, Behavior and Perception Towards Fresh Strawberries (ISRSD)
- b) Administration and Supervision of the Student Teaching Program of the College of Teacher Education, Benguet State University (Mary Jane Laruan, College of Teacher Education)
- c) Agricultural Decision Making and Farming Activities of Integrated Pest Management Farmer Field School Graduates in Bokod, Benguet (BSU-ISRSD & BSU-Bokod Campus)

On-going

- a) Innovation Potentials in Small and Medium Enterprises in the Cordillera Administrative Region
- b) Consumers Behavior and Perception Towards Local Salted Meat
- c) Benchmarking on the Use of Instructional Media Among Teachers of Teacher Education Institutions in the Cordillera Administrative Region (BSU-College of Teacher Education)
- d) A Study on the Factors Affecting Agricultural Technology Adoption in the Cordillera (Julia A. Solimen, BSU-College of Agriculture)

Research and Extension

- e) Gender and Development Program in BSU (Ma: Luz Fang-asan, BSU-College of Agriculture)
- f) Agricultural Thesaurus in the Cordillera Characteristics of the Strawberry Processors

Publication and HARRDEC RDE Sectoral Review

- Consumers' Attitude, Behavior and Perception Towards Fresh Strawberries – BSU Research Journal
- Radio
- Vegetable Marketing in Benguet – DZEC, Manila

Outreach:

- Beekeeping and Goat Raising in Kapangan, Benguet
- Lemon grass Tea Processing in Bokod, Benguet (with BSU-Bokod Campus)

Project 6 – Semi-Temperate Vegetable Research And Development Center (STVRDC)

Researches implemented starting October, 2004:

1. Balance Fertilization Strategy for Semi-Temperate Vegetables in the Highlands, Northern Philippines Budget: EUR 19,443.62

2. Survey, Identification and Mapping of Soilborne Plant Pathogens, Vectors and Alternate Host Weeds in Atok and Buguias by Asuncion I. Nagpala Budget: EUR 13,333.33.
3. Participatory Evaluation of Clubroot Disease Management Strategies on Crucifers by Bernard S. Tadawan Budget: EUR 10,185.21
4. Sustainable Management of Plant Parasitic Nematodes Associated with Semi-temperate Vegetables in Cordillera by Luciana M. Villanueva Budget: EUR 10,964.46.
5. Participatory Evaluation and Selection of Novel Potato Varieties for Organic Production in Northern Philippine Highlands by Belinda A. Tad-awan Budget: EUR 7,690.27
6. Use of Parasitoids to Manage Potato Leafminer (*Liriomyza huidobrensis* (Blanchard) Associated with Semi-temperate Vegetable Crops in the Cordillera by Lita M. Colting. Budget: EUR 10,005.05.
7. Towards a Sustainable Semi-Temperate Vegetable Production: Characterization, Genetic Conservation, and Propagation of Indigenous vegetables of the Highland Cordillera by Lorenza G. Lirio Budget: EUR 38,482.45

PRODUCTION



Production

The organization structure of the UNIVERSITY BUSINESS AFFAIRS (UBA) shows the layers of governance and management wherein the top management is composed of the University President as Program Director, the Board of Management (BOM) as the policy making body, and the Program Director as the chief operating officer. The University President is assisted by the Vice President for Administration who acts as officer-in-charge as delegated. The middle management is composed of division coordinators and project managers, while the lowest level is represented by staff workers and laborers. The Program Director is assisted by the division coordinators, project analysts, monitoring & evaluation officers, IGP field supervisor, and the administrative support services staff.

To achieve the major function of generating revenue, the UBA assuming direct responsibility in the overall administration and management of the various IGPs in implementing policies, programs, plans, laws, control systems and procedures, rules and regulations to achieve targets with optimum efficiency, effectiveness, and at least costs; promoting a sense of responsibility and accountability, commitment, harmonious camaraderie, cooperation and teamwork, and; establishing linkages for the smooth functioning of all projects.

At the present, the IGPs are categorized according to fund account: Revolving Fund 161 (Agri-based Projects), Revolving Fund 163 (Non-agri-based/Auxiliary Services), and Revolving Fund 164 (Special Projects).

In general, the UBA with its steadfast commitment in governance and management achieved the following:

As of December 31, 2004, a total of Php26,506,703.63 net income was generated from the various income generating projects and other business activities through land use, broken down as follows:

- (a) Revolving Fund 161 (Agri-based IGPs)
Php4,560,686.04
Seed/Vegetable Production, Bakery, Poultry, Floriculture, Swine/Piggery, Strawberry, Cattle, Agro Forestry, Pomology, Food Processing Center, Souvenir Gift Shop, Marketing Center, Root Crop Processing Center, Multi-vegetable, Mushroom, Potato Seed Production
- (b) Revolving Fund 163 (Non-Agri-based & Auxiliary Services IGPs)
Php 2,565,667.15
Special Projects. RSDC Cafeteria, SLS Canteen, CEAT Canteen, ELS Canteen, CHET Showcase, Dormitory, HMEG, Vet Clinic, PWRS

- (c) Revolving Fund 164 (Special Projects)
Php19,380,350.44
College IGPs, Outside Funded Projects, Commercial Establishments, BOLTs, Livelihood & Entrepreneurial Partnerships, School Fees, Research & Extension Collaborative Agreements, Other Services

Employment was provided with one hundred (100) "job orders" deployed in the various Income Generating Projects. Student Labor was granted to deserving students.

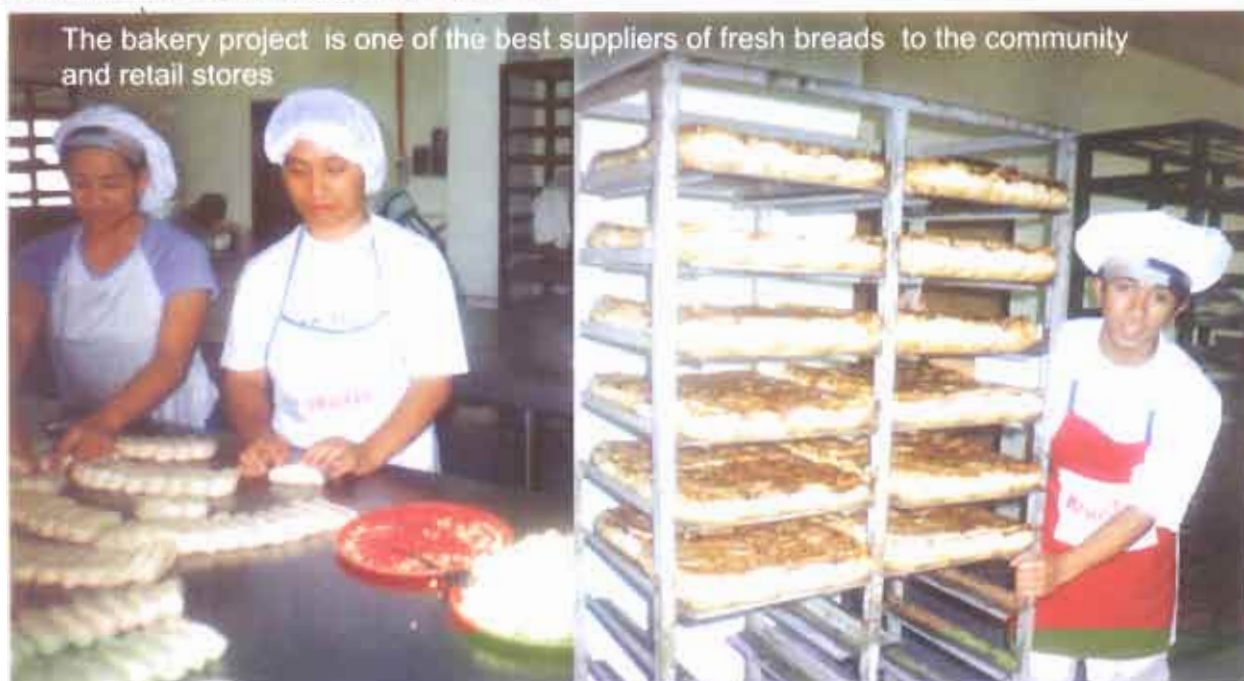
A total of six hundred (600) livelihood & entrepreneurial partnerships with stakeholders from the community through MOA were implemented, broken down as follows: (a) 315 farmer cooperators; (b) 160 sariing sikap employee farmers; (s) 125 entrepreneurial stalls distributed in the main campus, i.e. the Orchidarium, Betag satellite Market in Swamp Area, Campus Stalls, Dry Goods behind PNB & the Km. 5 Marketing Center.

The following table summarizes the activities and achievements of the production sector.

ACTIVITY/PLAN	ACHIEVEMENT
A. IGP Governance and Management	
<ol style="list-style-type: none"> 1. Implement government plans, programs, policies, laws, rules and regulations in the management operations of all business and income generating projects; 2. Conduct meetings of the BOM, beginning of the year to approve annual production plan for the year 2004 and end of December to evaluate program accomplishments and submission of production plans for the year 2005; conduct meetings with project sectors as needed; 3. Sustain implementation of IGPs as contained in the 2004 Production Plan in accordance with NBC 331 and 331A, COA Circular 84-239 and university policies, accounting and auditing rules pertinent thereto; 4. Continue the implementation of the Incentive Scheme as approved by the BOR in accordance with limitations under NCC 75, and; 5. Draft for approval the UBA Manual of Operations to conform the changing trends of the times, with the ACAP Unified IGP Manual, CLSU IGP Manuals as guide as well as policies adopted by the University on IGP Management. 	<ol style="list-style-type: none"> 1. Approved Annual Production Plan for 2004, systematic, easily monitored; 2. Strict adherence to systems and procedures on administrative/financial transactions to minimize COA suspensions/disallowances on UBA accounts; reduced/avoided unnecessary wastage of resources (cost reduction); 3. Grant of incentives highly motivated and energized IGP staff to intensify production for increased ROI; 4. Draft UBA Manual submitted to the President for perusal
B. Proposed Expansion of IGPs for Increased Income	
<ol style="list-style-type: none"> 1. Expansion of on-going viable Projects 2. Construction of Additional Greenhouses for High Value Crops production. 3. Relocation of stalls dismantled from the McDO site to the area adjacent to the BSU Coop Building. 4. Procurement of equipment for use of IGP outlets (cafeteria, marketing center, guestels, food processing, bakery) and vehicle for IGP use. 5. Operationalization of the BSU Purified Drinking Water Station located at the BSU Entrepreneur Center. 6. To provide support to new project proposals submitted upon approval by the President thru the UBP-BOM 	<ol style="list-style-type: none"> 1. Poultry house expansion on-going in the same area for 5,000-layer capacity to be completed by December 31, 2004. 2. Greenhouses for High Value Crops and Floriculture Completed (phase 1 and 2) 3. Improvement of equipment and facilities of marketing center, canteens, guestels completed; food processing on-going; vehicles purchased for easy mobility. 4. BSU Purified Drinking Water Refilling Station in full operation. 5. New Projects established- GIS; Motorpool Car Service Project; CF Nursery; Figaro-BSU Arabica Coffee; Plastro Greenhouse Demonstration Farm; Expanded Agroforestry Projects- citrus, mushroom, swine, SLS Farming Program. 6. Plans and estimates for expansion of stalls near BSU Coop Building still in process.

Production

Activities/Plans	Achievements
C. Maximization of Land Use	
<ul style="list-style-type: none"> * Operationalization of BOLT agreements with McDonald's; the Contract of Lease of Green Mile Enterprises at the Gladiola Center, and others. 	<ul style="list-style-type: none"> * MCDonald's in full operation * Total Philippine Gasoline Station, for 2,000sqm. BOLT in Cabanao, negotiation on-going
D. Strengthening / Institutionalize College/RET IGPs for Sustainability of the Departments	
<ul style="list-style-type: none"> * Reconsideration of the Vet. Medicine Clinic to remain as IGP for the college at the same time utilized as instruction for augmentation. * Work closely with the VPs for Academic Affairs and RET for the establishment of IGPs of the college and research and extension departments; and institutionalization of outside funded partnerships * To provide fund support to social researches from faculty proponents and provide capital for new project proposals that are submitted under the UBP Special Project Fund, as may be appropriate. 	<ul style="list-style-type: none"> * Vet Med Hospital in full operation as IGP of College * New College IGPs * CF Review Class * CN Review Class * CF-GIS Training * None submitted for the period
E. Monitoring and Evaluation	
<ul style="list-style-type: none"> * Monitor prompt submission of monthly reports from IGP managers producing ROI in compliance with COA Circular 84-239 * Require submission of an approved project plan and budget before any project should start operation * Require perfection of MOA of land use activities and update payment of rentals * Submission of College/ RET IGPs of Project Plan and Budget and terminal reports every end of the project implementation. (IGP plans shall be consolidated and approved by the VP concerned and endorsed to the UBP-BOM for approval by the President) * Monitor the strict adherence of policy guidelines, rules and regulations on project operations for transparency 	<ul style="list-style-type: none"> * Monthly Income Reports regularly submitted and statement of accounts sent to partners on land use to update of income collection. * All land use activities covered by MOA * Satisfactorily attained * All transactions properly documented according to accounting/ auditing requirements;





ACADEMIC PROGRAMS

1. Graduate Degree Programs in coordination with graduate school of the Main Campus:

- 1.1 Doctor of Philosophy in Educational Management
- 1.2 Master in Public Administration
- 1.3 Master in Arts in Social Studies
- 2. Undergraduate Degree Program
 - 2.1 College of Teacher Education
 - a. Bachelor of Secondary Education
 - b. Bachelor of Elementary Education
 - c. Bachelor of Science in Industrial Education
 - d. Bachelor of Science in Agricultural Education
 - e. Short Course – Auto Mechanics
 - f. Secondary Laboratory High School

Faculty Profile

There are 66 regular employees of the Buguias Campus including the Executive Dean who was assigned from the Main Campus since the integration. As of January, 2004, six contractual workers in the non-teaching department have been hired as two volunteer teachers have been with the Related Subjects Department, though one ended her voluntary service on March 31, 2004. Table 1 shows the distribution of the number of faculty in each department.

Table 1. No. of employees in each department with their educational attainment

DEPARTMENT	NO. OF PERSONNEL	EDUCATIONAL ATTAINMENT		
		BS/AB	MA/MS	PhD/EdD
College	11*	2	4	2
Trade	13	9	4	0
Agriculture	7	4	2	1
Related Subjects	21**	11	8	2
TOTAL	52	26	18	6

* Plus three visiting professors from the Main Campus

** Plus three volunteer teachers, one from January to March and the other from June 21 to November and another started from October to present.

Graduates

On March 30, 2004, Buguias Campus graduated 25 from the College Department, five from the Diploma in Public Administration and

112 from the Secondary Department. Table 2 shows the distribution of the graduates.

Table 2. Distribution of graduates for the second semester, SY 2003-2004

A. General Fund	
1. Personnel Services	P13,803,213.00
2. Maintenance and Operating Expenses	828,833.00
B. Trust Fund	496,770.00
C. Graduate School Fund(self-liquidating)	235,860.00
D. Revolving Fund	157,544.00
TOTAL	P15,522,220.00

Enrolment

Enrolment in June 2004 for the first semester of the school year 2004-2005 increased slightly in the graduate and the college departments, when compared to the previous

terms. The secondary department, however, has to maintain its 529 enrollees. The distribution of enrollees is shown in Table 3 for the 1st and 2nd semester.

Table 3. Enrolment for the 2nd semester 2003-2004 and SY 2004-2005

COURSE	2nd sem, 2003-04	Summer, 2004	1st sem, 2004-05	2nd sem 2004-05
Graduate				
PhD	9	14	13	2
MPA	7	0	0	-
MAED	18	14	19	11
DPA	5	-	0	-
College				
BSE	90	-	95*	92*
BEE	40	-	59*	61*
BSIE	26	-	30	27
BSAE	31	-	39	38
Auto-Mechanic	5	-	0	-
High School	527	-	529	529
TOTAL	758	28	782	760

Scholarships

Buguias Campus has scholars at the college department with a total of 39. The

different scholarship grants are shown in Table 4.

Table 4. List of different scholars

SCHOLARSHIP/GRANT	NO. OF RECIPIENT	
	1st Sem, 2003-2004	2nd Sem, 2004-2005
1. ROTC	7	7
2. Sanguniang Kabataan	3	3
3. Dependents of Local Government Officials	14	14
4. Dependents of IBSU Employees	6	6
5. Academic Scholars	3	3
6. DAR Grantees	3	3
7. Lepanto Mines Inc. Scholars	2	2
8. Campus Publication Scholar	1	1
Total	39	39

RESEARCH AND EXTENSION

Research/Extension Projects and Activities

1. Long-Term Training on Organic Farming of vegetables in coordination with People's Initiative for Learning and Community Development (PILCD), a non-government organization.
2. Hog Raising Training with PILCD
3. Hog Cholera vaccination in Loo, Baculungan Sur, and Poblacion, Buguias, Benguet.
4. Training on flower arrangement
5. Seminar training on parliamentary procedures at the Sangguniang Bayan
6. Seminar Workshop on Ecological Waste Management

Linkages

Buguias Campus does networking and undertakes linkages with other government and non-government offices in carrying out its University functions. This leads to the development of the institution in terms of financial/material resources and the faculty and staff development.

The following offices are some of those with which the campus established linkage in 2004:

1. BSU-Main Campus
2. Municipal government of Buguias
3. Rural Based Organizations in Buguias
4. Department of Agriculture
5. Bureau of Fisheries and Agricultural Resources
6. University of Santo Thomas, Manila
7. Cavite State University
8. University of the Philippine, Los Baños
9. National Irrigation Authority
10. TESDA-Bontoc
11. Cooperating High Schools for practice teaching

Financial Resources

1. Budget

The total budget of the Campus from January to December 2004 amounts to P15,522,220, broken down as follows:

A. General Fund	
1. Personnel Services	PhP 13,803,213.00
2. Maintenance and Operating Expenses	828,833.00
B. Trust Fund	496,770.00
C. Graduate School Fund(self-liquidating)	235,860.00
D. Revolving Fund	157,544.00
TOTAL	PhP 15,522,220.00

2. Production and Income

Buguias Campus is engaged Income Generating Projects (IGP) as shown in the following:

*June to December

**April to December

SOURCES	GROSS INCOME
1. Piggery	PhP 190,000.00
2. Cutflower production-Chrysanthemum	26,000.00
3. Poultry	462,701.40
4. Cafeteria Management*	31,000.00
5. BSU BC Marketing**	104,868.24
Total	PhP 814,569.64

ACADEMIC PROGRAMS

Enrolment

There are 771 total students enrolled in the Bokod Campus, these includes the secondary laboratory school. There is a decrease of enrolment by 9.5% based on enrolment from last year.

Table 1. Enrolment trend fro SY 2002-2003, SY 2003-2004 and SY 2004-2005

PROGRAMS	1st Sem 2002-2003	Increase/ decrease	1st Sem 2003-2004	Increase/ Decrease	1st Sem 2004-2005
BS Industrial Education	180	26%	134	16%	112
BS Industrial Technology	109	29%	141	.007%	140
Bachelor of Elem. Educ	55	45%	81	2.5%	79
2 Yr Trade Tech'l	17	41%	425	9.5%	427
Basic high School	502	15%	425	9.5%	427
Total	863	30%	805	9.5%	771

Graduates

There were a total of: 71 graduates from the two college programs. Bachelor of Elementary Education is still a new course; hence, there are no graduates yet.

Table 2. Number of graduates in undergraduate programs

PROGRAM	MARCH 2004	MAY 2004	OCTOBER 2004	TOTAL
BS Industrial Education	40	None	None	40
BS Industrial Technology	29	None	2	31
Bachelor of Elem. Educ	None	None	None	None
Total	69	None	2	71

Scholarships

	1st semester	2 nd Semester
Barangay Scholars	29	28
NCIP Grantee	17	17
PDMASP Grantee	1	1
TOTAL	47	46

Professional Licensure Examinations

- There were 6 BSIE graduates who passed the Licensure Examination for Teacher given last August 28, 2004.

Bokod Campus

Salient Developments

Student Services

1. School canteen
2. Maintained water system
3. Maintained institutional cooperative

Library

1. Purchased 82 copies of reference books
2. Donation of 31 copies of reference books from BSUAAI

Registrar

1. Individualized permanent records of the newly enrolled students for filing
2. Minimized late submission of grades and late completion of incomplete grades.

Medical/Dental

1. Conducted intensive information campaign on communicable diseases particularly the meningococemia.
2. Visited students reported sick in their homes and boarding houses
3. Physical examination conducted on the first month of classes

Guidance

1. Follow-up students' problems.
2. Conferred with concerned parents and students

Infrastructure Implemented

PROJECT	QUANTITY	AMOUNT
Riprapping/Construction of retaining stonewalls of wood technology Building land base	250 cu.m.	Php 300,000.00
Repair of Food Technology building	1 room	200,000.00
Repair of comfort rooms	2	70,000.00
Procurement of window iron grills	2 sets	60,000.00
Total		Php 630,000.00

Academic and Community Extension

- Twenty-one College students and nine high school students were given scholarships by the Rotary Club and other organizations.
- Twenty-one graduates opened up non-formal education on food preparation to young mothers.

APPENDICES

Appendices

Administrative Council

ROGELIO D. COLTING
President (Chair)

FRANCO T. BAWANG
University Vice-President (Vice Chair)

FELICIANO G. CALORA, JR.
Vice-President for Academic Affairs

SONWRIGHT B. MADDUL
Vice-President for Research and Extension

DARLYN D. TAGARINO
Vice-President for Planning and Development

LUDIVINA O. ALAGAO
Chief, Budget Office

PERCIVAL B. ALIPIT
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ALBERT B. PANANGON
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GRACE T. BENGWAYAN
University/Board Secretary V

Academic Programs

Graduate Degree Programs

- * PhD in Agronomy
- * PhD in Agricultural Education
- * PhD in Educational Management
- * PhD in Horticulture
- * PhD in Language Education
- * PhD in Rural Development
- * EdD in Educational Management
- * Master of Arts in Applied Statistics, Chemistry, English as a Second Language, Filipino as Second Language, General Science, Home Economics, Physics, Physical Education, Social Studies, and Technology & Home Economics
- * Master of Arts in Education, major in contextualized Instruction, Educational Administration and Supervision, Elementary Education, and Guidance and Counseling
- * Master of Forestry in Silviculture, and Watershed Management
- * Master in Public Administration
- * Master of Resource System Management
- * Master of Science in Agricultural Economics, Agricultural Education, Agronomy, Animal Science, Biology, Entomology, Extension Education, Forestry, Horticulture, Plant Pathology, Rural Development, and Soil Science
- * Master of Science in Mountain Engineering (in coordination with SLU and BCF)

Open University Program

- * Master in Community Development
- * Master in Development Communication
- * Master in Human Resource Management
- * Diploma/Master in Urban Management

Postsecondary Non-degree Program

- * Diploma in Agro-forestry (DAF)
- * Forest Ranger Certificate Course
- * Certificate in Basic Automotive Technology
- * Certificate in Advanced Automotive Technology

Undergraduate Degree Programs

- * Bachelor of Science in Agriculture (BSA)
- * Bachelor of Science in Agribusiness (BSAB)
- * Bachelor of Science in Development Communication (BSDC)
- * Bachelor of Science in Applied Statistics (BSAS)
- * Bachelor of Science in Environmental Science (BSES)
- * Bachelor of Science in Information Technology (BSIT)
- * Bachelor of Science in Agricultural Engineering (BSAEng'g)
- * Bachelor of Science in Forestry (BSF)
- * Bachelor of Science in Home Economics (BSHE)
- * Bachelor of Science in Nutrition and Dietetics (BSND)
- * Bachelor of Science in Entrepreneurial Technology (BSET)
- * Bachelor of Science in Nursing (BSN)
- * Bachelor of Elementary Education (BEE)
- * Bachelor of Secondary Education (BSE)
- * Bachelor of Science in Agricultural Education (BSAE)
- * Doctor of Veterinary Medicine (DVM)

Post BS Non-degree Programs

- * Diploma in Physical Education
- * Diploma in Public Administration
- * Certificate in Public Administration

Basic Education programs

- * Secondary Laboratory School
- * Elementary Laboratory School
- * Early Childhood Development Program

Special Courses

- BSU-SNU Functional Intensive English Training Program (FIETP)

VISION

A premier University that develops human resources imbued with a culture of excellence and social consciousness, and promotes environment-friendly technologies to uplift the quality of life.

MISSION

BSU shall pursue sustainable resource development through quality instruction, client-orientated research, participatory extension and viable production system

BSU Annual Report Task Force

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